

Volume XXI. Number 3

July 18, 1906

MUNICIPAL JOURNAL AND ENGINEER



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SPECIAL NOTICE

In the respective following issues of the Municipal Journal and Engineer considerable space will be devoted specially to the subjects as indicated:—

—1906—

- August 1st - - - SANITATION
—Smoke Prevention, Street Sprinkling and Cleaning.
- September 5th - - - THE CITY BEAUTIFUL
—Parks, Monuments, etc.
- October 3d - - - FIRE AND POLICE
- November 7th - - - LIGHTING
—Gas, Electricity, Etc.
- December 5th - - - BRIDGES

MUNICIPAL JOURNAL AND ENGINEER

VOLUME XXI.

NEW YORK, JULY 18, 1906.

No. 3.

Published every Wednesday by

THE MUNICIPAL PUBLISHING COMPANY
Flatiron Building, Madison Square,
New York City

Telephone, 6723 Gramercy, New York

Entered as second-class matter, January 3, 1906, at the Post Office
at New York, N. Y., under the Act of Congress of March 3, 1879.

TERMS OF SUBSCRIPTION, PAYABLE IN ADVANCE

United States and possessions, Canada, Mexico, Cuba, \$3.00 per year
All other countries 4.00 per year

Make all checks payable to The Municipal Publishing Company.

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AND ENGINEER, either in the form of special articles or of letters
discussing matters of current interest.

It is also desired that the facilities furnished by the reference
library in this office should be widely known and freely used by
those interested in municipal affairs. Visitors will be welcomed
and provided with conveniences for search, and inquiries by mail
will be promptly dealt with.

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Concerning Conventions

It must be a mighty attractive subject that can secure the attention and presence of half a thousand people, sufficiently well to compel them to make breaks in their occupations or vacations and undertake journeys from almost every part of the United States, in many instances at no little expense, and in most instances at much inconvenience. But this is just what the twenty-sixth annual convention of the American Water Works Association was able to do during the last week, in Boston, Mass. It speaks volumes for both the Association itself and what it represents. Gatherings like these, so mentally and territorially diverse in composition as they must be, are of vast usefulness in discussing and consolidating thought and action regarding the most (next to air) important branch of life's work. The discussion of theories and facts, and the interchange of ideas cannot but be of the utmost benefit to mankind generally, as well as to the individuals particularly concerned. Much that was new was talked about, and much that was old was made new

by new presentation. It is a striking object lesson, and cannot fail to favorably impress every citizen of the city wherein assembled the members of the Association, as well as the citizens of other cities, making them alive to the fact that there is a great, growing force of scientific trend and accomplishment ready to take up, handle and thresh out any subject in any branch of the society's work, not only in this country but in the world at large. In a word, this body of men, fitted in every way by study, experience and accomplishment, are so many heralds of health and benefit. Too much encouragement cannot be given to such meetings, and those engaged in the work of water supply should become members of the association. Conventions such as these, social as well as scientific, materially assist in the further development of interest and research.

Telephone Terrors

THEY are really not unreasonable—the continued grumbles and complaints of the users of telephones at public booths as to the unsanitary conditions surrounding them. First, there is the booth, minus ventilation and with the door invariably closed when it is unoccupied, thereby subjecting the next comer to the poisoned atmosphere generated by his predecessor. Then there is the mouthpiece of the instrument itself, oftentimes filthily redolent of the individual that has just used it, whether of his most recent drink, past meal, current cabbage leaf cigar, or immediate chew, apart from the fact that it must naturally be the dumping-ground of catarrhal, tuberculous, or even diphtheritic bacteria. These are not jokes—they are startling dangers, and something should at once be done to remove them. Surely a spring could be devised to hold the door back when the booth is not in use, and some method of cleaning the mouthpiece with a pleasant deodorant of some kind each time it has been in operation. One would think that the companies themselves, operating the 'phones, would see to these things and relieve the operation of telephoning of such disgusting corollaries. A good way to secure attention is for the customer to kick hard and kick constantly, but a better—if not the best—way is for the city officer of health to go ahead and promptly condemn them, thus forcing the companies to a proper appreciation of their duties to the public—their patrons. There is something particularly repellent in the idea of catching all sorts of diseases by the five cents' worth.

Notice.—In our issue of June 20th, on page 586, we published a valuable table on Street Designing. The name of Mr. Burton J. Ashley, civil engineer, of Chicago, Ill., should have been given as the compiler of the table, but through an oversight it was omitted.

MUNICIPAL MOVEMENT

Collated and Chronicled

Metropolitan Items.—Edouard Jubliet, head of the Patronage de l'Infants of Paris, connected with the administration of justice to children in that city, was a guest recently of E. Fellows Jenkins, Superintendent of the Children's Society of the city and chief probationary officer of special sessions. He is here to study the city's parole and probation system for juvenile offenders, which has been adopted, in a general way, in Paris. He also visited special sessions and the Tombs police court.

Acting Mayor McGowan, of New York, has vetoed the ordinance passed by the Aldermen recently compelling all hospitals to receive patients brought to them in ambulances, except cases of contagious diseases, and prohibiting the transfer of moribund patients to Bellevue.

Traffic on the municipalized Staten Island, N. Y., ferry for the first eight days of this month indicates that the receipts will be \$12,000 in excess of what it ever earned in any July under private ownership. Receipts for June were \$8,597 above what the ferry took in last June.

The District Attorney of New York has received a communication signed by a committee of ten representative residents of the East Side appealing to him to take immediate action against the exactions of the consolidated ice companies in that part of the city. It was stated that a committee of one hundred was being formed to take the matter in hand and collect such evidence against the ice companies as would be required in a prosecution. The communication was signed by Henry White, Mayer Schoenfeld, Abraham Mitchell, Joseph S. Marcus, and six others. It recited that because of the extortionate prices charged for ice thousands of poor and feeble residents of the East Side were in great distress.

Wagenhals & Kemper, lessees of the new Astor Theatre, have written to Presiding Justice Theodore W. Swift of the Court of Claims setting up claim to a plot of ground in the rear of the theatre which is said to be without an owner. This piece of land, which is triangular in shape, contains about ten square feet, and is said by the theatrical people to be a part of the old Astor farm.

At its last session until the last day of July New York City's Board of Aldermen appropriated \$2,000,000 for sites and buildings for the Police Department; \$628,000 for the completion of the buildings for Bellevue Hospital Training School for Nurses, and \$5,000 to protect the waters of New York from pollution. A resolution requesting Police Commissioner Bingham to restore the three platoon system in the Police Department was approved.

Notice of a suit by the Interborough Rapid Transit Company was served on Controller Metz to decide the question of the company's liability for the one per cent. on the construction bonds. The company paid the money under protest, \$382,000, a short time ago, after argument with the Controller and the Corporation Counsel.

ALABAMA, Birmingham.—Chief Inspector Duncan's report to the city for June shows, among other things, how sweeping the meat monopoly is in this section, and presumably in the rest of the country. Only about 10 per cent. of the cattle consumed here are home slaughtered, although rather more of other animals, especially hogs, are killed and dressed here. It is about a fair statement to say in round figures that the big packers in the Northwest kill and prepare three-quarters of our meats, and that the home folks slaughter but one-quarter. These facts go to explain how great, through rebates and other devices, the meat trust has become. In the same city it is claimed that attractive public parks are a valuable asset. Park Commissioners appointed by the Mayor and Board of Aldermen to improve the city parks could do much for Birmingham. The city should also purchase a large tract for a suburban park. Such a purchase would be a wise investment in the encouragement of recreation, and would pay for itself in the improvement of the public health.

ARIZONA, Phoenix.—The City Council has found a way out of the dilemma existing when its members assumed office with an empty treasury. Instead of cutting off the expense of street sprinkling, as has been done temporarily, on the Fourth of July the Street Department resumed its sprinkling work and the expense will be met by raising the saloon licenses to \$1,000 a year. This will increase the revenues from this source from \$6,400 to \$18,000. The street sprinkling costs about \$1,000 a month. Since June 1 there has been no watering, and now it may require the work of six sprinklers working day and night to put the streets in good shape.

ARKANSAS, Fort Smith.—Owing to the manner in which the streets have been laid out there are numerous fractional lots at street intersections which are of practically no value, most of them being too small for building purposes. It is suggested that these be dedicated to the city for street purposes, to the end that the Paving Commission may incorporate them in plans for parking the streets and intersections. The flatiron lots have only a speculative value, and public spirited owners could not do better with them than to turn them over to the city for improvement.

CALIFORNIA, San Francisco.—The Spring Valley Water Company, in communications sent to both the Fire Department and the Board of Public Works, calls attention to a scarcity of water in the high-level sections of the Western Addition. It would seem from the statements of Engineer Schussler of the water company that it has been badly handicapped by the loss of the Pilarcitos conduit, by which 6,000,000 gallons of water were brought to San Francisco daily. This conduit was put out of commission by the earthquake. The water company also complains of great waste by water consumers. Chief Shaughnessy of the Fire Department was requested to interest his district engineers in the effort to stop waste, in order that there might not be a shortage of water. Information furnished Secretary Louis Levy of the Board of Works is that during the recent warm period the consumption or waste of water greatly increased and exceeded any previous waste in the high levels of the Western Addition. It is estimated that the use on these levels has averaged 12,000,000 gallons a day.

COLORADO, Pueblo.—The work of laying the cement foundation for the asphalt pavement on upper Main street has been resumed with a rush, and the big machine has ground out enough of the stuff to lay a considerable portion of Tenth street south of the street car tracks. The setting of curbing is now in progress upon Seventh street, and the contractors are confident that they will find no difficulty in keeping out of the way of the pavers.

CONNECTICUT, Bridgeport.—The city government has arranged to spend \$60,000 on improving the Fire Department of the city, and in view of this fact the property owners of the city are at a loss to know why the fire insurance companies intend to raise the rates in many sections of the city 20 cents on the hundred dollars. The last report of the insurance underwriters gives Bridgeport credit with having complied with 61 per cent. of the recommendations made by the committee of twenty.

DELAWARE, Wilmington.—Since July 10 the Board of Health has allowed no garbage to be hauled out of the city for the pigeries that have hitherto been depending on that source for food supply. Rather than buy food the owners of some of these establishments have already disposed of their stock in anticipation of this action. Hereafter all garbage goes to the crematory. The dumping of rubbish as a filler in holes in roadways will be prohibited and food inspection will be more severe than ever. Street vendors will have the sanitary condition of their wagons and stands, as well as their wares, examined.

DISTRICT OF COLUMBIA, Washington.—The tuberculous patients at Starmount Sanatorium are now almost envied by the citizens of Washington, for to spend the hot summer nights out doors is the desire of all who are housed up in the city. The patients spend their entire time in the open air 500 feet above the sea. The members of the colony are happy and hopeful to a surprising degree. So much improvement has been noticed in those there and so many cures have been effected that everyone talks of the time he will be able to return to his home and work.

FLORIDA, Palatka.—From present indications the city is soon to have a waterworks system of its own. The contracts have been let for the construction of the standpipe and pumping station, and the work of laying the mains and laterals will begin immediately, 100 men being advertised for. It is understood that an abundance of pure soft water has been obtained at the site of the new plant and that in some respects will be superior to the water at present furnished by the Wheeler company, especially in the matter of cost to the customers.

GEORGIA, Athens.—The Central of Georgia railway is prepared to push the work of improving its terminals by day and night until the work is finished. Plans for a handsome passenger station to be used by the Central and Southern in common are now being drawn, and it is expected that this building also will be finished by fall.

Atlanta.—The Chamber of Commerce has just added 24 to the membership, making a total of 445.

Augusta.—Hereafter every immigrant who comes to this city will be made an immigrant agent, according to a plan to be put in operation by the Chamber of Commerce. Every immigrant on his arrival will be asked to give a list of the names of his friends in the old country. Letters will be sent to each together with pamphlets and booklets setting forth the advantages of the city. The first attempt to carry out this idea met with success; a recently arrived Britisher captured a friend who came over on the same boat with him.

Macon.—The Bibb County Commissioners have decided to build permanent roads. It has been agreed to buy a steam roller, a sprinkling wagon and use material of a permanent character.

ILLINOIS, Chicago.—Justice Hurley urges that the police be ordered not to book any prisoner under seventeen years of age unless they are so directed by a police magistrate. If this policy is adopted and if arrangements at the police stations are so modified that the youthful offenders need not be placed in contact with adult prisoners the work of reclaiming juvenile delinquents from habits and associations of a criminal character will be rendered distinctly more efficacious than it is at the present time.

—An unknown philanthropist has presented the South Chicago fire company with a piano and the firemen have petitioned the Mayor to add to their company a fireman who can play it. Mayor Dunne made a formal presentation of medals to the heroes of the Police and Fire Departments.

—The Civil Service Commission has reinstated Mrs. Augusta H. Pio as sanitary inspector.

—The Chicago Commercial Association has adopted a report of its committee on the proposed deep waterway to the gulf, which urged that the United States Government take over the drainage canal and convert it into a ship canal at an expense of \$30,000,000.

Elgin.—An ordinance has been passed providing for placing all electric wires underground on the streets which are about to be paved.

Joliet.—The charter rights of the gas company will be investigated by order of Council. It is charged that the company has exceeded its charter rights by excavating at will in streets not platted at the time the State granted its charter; that it violated its charter in moving its plant outside of the city and in allowing its capital to exceed \$1,000,000.

Kankakee.—The Mayor and Council are discussing the advisability of adopting an all night lighting schedule in place of the present plan of turning out the lights at one o'clock on moonlight nights. The Electric Company will work under this schedule for \$60 per light per annum.

—Chief Powell of the Fire Department recommends in his annual report a system of monthly drills for the three fire companies. He complains of lack of interest in the department and believes if prizes were offered by the city for proficiency in drill the efficiency of the department would be improved. He also wants a fire bell or whistle.

Peoria.—The Peoria Gas and Electric Company's stock held by J. R. Walsh has been sold to New York and Peoria capitalists. The company will ask the city for an extension of its franchise and offers in return cheaper gas and underground mains through the business districts of the city. The

city will dismiss all suits pending against the company if the ordinances embodying these propositions are agreed on.

Quincy.—The new Home Telephone Company's underground system is considered as a model in the way of modern telephone line construction.

INDIANA, Indianapolis.—The News Fresh Air camp has been opened at Corey's woods. The foundation for the conservatory at Riverside Park will soon be begun and next year an appropriation for a superstructure will be made; this will be the beginning of a botanical garden.

Muncie.—The Commercial Club has requested that saloons be banished from Muncie's residence and factory districts, and, as the club has the sympathy of Mayor Charles Sherritt, who has the power to revoke licenses in case the liquor laws are disobeyed, a concerted movement to drive all saloons to the uptown district is probable. This would mean, of course, that a large number of saloons would drop out of existence, as they could not afford to pay high rents uptown. The following resolution was passed at the club: "Resolved, That this Commercial Club hails with delight the action of the City Council in removing saloons from the vicinity of the parks, and we urge further action in this direction which falls within the law. We recommend that the business district of the city be defined, and that the saloons be limited to this district. In such action and enforcement of the law we pledge to the city authorities our moral support."

Terre Haute.—Judge Robinson, of the Appellate Court, has decided that when Mayor Bidaman was impeached he ceased to be Mayor. It was not possible to decide the question in any other way. The Council had the right and the power to act as it did, and Bidaman should have bowed to its authority. Instead of doing so, he insisted that he was still Mayor, took the matter to the courts, and so for almost a week the city of Terre Haute had no Mayor—or two Mayors, which amounts to practically the same thing. The new Mayor, Frank M. Buckingham, has assumed office, and he promises to enforce the laws. He appointed three prominent citizens, including the President of the Manufacturers' Club, on the Board of Public Safety. And it is believed that, for a time at least, Terre Haute will be free from saloon and brewery government.

INDIAN TERRITORY, Ardmore.—A city ordinance has been passed levying taxes for public schools, improvements, and general purposes for the year 1906. The school tax is five mills; two mills creates a sinking fund to pay the principal interest on the waterworks and school house bonds; two mills for the interest on same, and ten mills for ordinary purposes. The total taxable value of the city is \$3,830,000. The salary of the waterworks inspector was raised on account of the additional work in connection with the laying of new water and sewer pipes.

IOWA, Davenport.—The city's title to property located at Fourteenth and Iowa streets is disputed by George Beers, of Champaign, Ill., who claims to hold the deed for the land and says he has never transferred his title. He claims that when the city condemned the land it paid the wrong party and he now asks \$6,000 for land that was used in opening the street. Two petitions have been presented to Council in reference to city lighting; the larger petition favors the recommendation of the Lighting Committee fixing the prices at \$68 and \$89 for moonlight and all night schedules, respectively. The other petition agrees with the City Electrician in desiring to fix the prices at \$60 and \$71.

Waterloo.—The first annual general conference of the health officers of the State was held here July 10 and 11 under the auspices of the State Board of Health. A lecture was delivered on "Consumption and its Cure," by Dr. W. A. Evans of Chicago, and Dr. Getz, of Marshalltown, spoke on "Garbage Disposal." The following papers were read: "The Work of the State Board of Health," Dr. R. E. Conniff, of Sioux City, President, Iowa State Board of Health. "The Health Physician," E. Warren Doolittle of Garden Grove. "The Health Officer; His Duties, Responsibilities and Limitations," Hon. C. W. Mullan, Attorney General of Des Moines. "Disinfectants and Disinfection," Prof. Henry Albert, of Iowa City. Dr. F. L. Sargeant, of Marion, also spoke.

KANSAS, Kansas City.—The expected has happened. The Supreme Court of Kansas has declared Mayor Rose in contempt and has fined him for the offense. It has declared that he may not lawfully hold an office from which he has been ousted by quo warranto proceedings, pending the term in which he was ousted. This logical reasoning was advanced at the time Mayor Rose resigned for the purpose of becoming a candidate for re-election in case the ouster proceedings should go against him. The Supreme Court declares that the electors as well as the Mayor are in contempt

of court in this transaction. It is not pleasant for a whole municipality thus to be arraigned by the highest tribunal of a Commonwealth. Mr. Rose contends that the twenty days given him in which to pay the fine was also his time to appeal and that he can hold the office of Mayor until the United States Supreme Court passes on the writ. If the writ is granted Rose can serve out his term, as it probably will be a year before the United States Court could decide the matter. If it is refused Rose must step out.

Yates.—Trainmen and enginemen of the Missouri Pacific have reported that Yates Center is out of water supply for its residence houses, all owing to several carcasses of cattle having been washed into the large reservoir that supplies the water mains with water.

KENTUCKY, Lexington.—Local citizens have raised a guarantee fund of over \$16,000 for the State Fair to be held here this year. They are also making a strenuous fight for a permanent location for the Fair. Louisville has entered into competition for the location and the papers of the latter city announce that a strong effort will be made to secure it. Lexington is the seat of the greatest agricultural region in the State, if not in the Union. She is easy of access, has splendid accommodations for crowds and every citizen manifests an interest in any enterprise of the kind. The new State Board of Agriculture, Forestry and Immigration met recently at Frankfort to consider the question of the permanent location of the State Fair. The board postponed action until a later meeting.

Louisville.—Mayor Paul C. Barth, in an interview at Denver, Col., gives this account of his city: "Louisville is growing just a little faster than any other city in the world, and she is growing in a substantial way. We have a \$4,000,000 bond issue scheme on foot to provide a comprehensive and complete sewerage system, and we have engaged the famous sanitary expert, Gray, who cleaned up Havana for the Government, to have charge of the work. The putting on of the 'lid' in Louisville has caused a sensation over the world. For forty years saloons ran open day and night, Sundays as well as week days, in Louisville, up to a year and a half ago, when at 1 o'clock closing ordinance went into effect.

Paducah.—A report recently made by the milk and meat inspector, giving tests on milk, shows that a great deal of "watering" is being perpetrated by dairymen. One had two per cent. "butter fat" and 91 per cent. of water. Alderman Palmer says that something should be done with several dairymen, as the result of the revelation in the report. The report stated that the presence of water was due to variation and it was the opinion of the inspector, Dr. Farley, that no diluting had been resorted to. The report was received and filed. An ordinance is in effect regulating the per cent. of butter fat and water.

LOUISIANA, New Iberia.—The Board of Trade, at a recent meeting, discussed a subject that may possibly revive an antebellum undertaking. Just prior to the war a few public-spirited citizens of the Parish of St. Martin, now the Parish of Iberia, conceived the idea of constructing a road or turnpike through the Spanish Lake marsh. The actual construction had begun and considerable work had been done when the war broke out. Recently the existence of this turnpike was brought to the notice of the officials of the Board of Trade, who looked into the matter, and found that the embankment thrown up in 1859 or 1860 was still plainly visible, and in shape for immediate use. An effort will be made to revive this undertaking and carry same to a finish.

New Orleans.—The relations of the port of the city of New Orleans to the sanitary authorities of the United States are decidedly different to-day from what they were last year, and even up to a few weeks ago. A few days ago a bill was introduced in the State Legislature proposing to authorize the sale to the United States of the Louisiana State Quarantine Station with its elaborate equipment. This sale is proposed for the reason that the Federal Quarantine law, approved by the President of the United States on June 29, assumes to take control of and to operate the entire quarantine service of the Gulf coast, and that at the mouth of the Mississippi River and the entrance to the port of New Orleans. In sanitary matters within the State the same conditions of co-operation and aid will exist as heretofore, and the State Board will still have its authority, which will extend as formerly to interstate questions. But in the entire domain of maritime quarantine the authority of the United States obtains.

MAINE, Portland.—The Board of Trade publish a visitors' handbook, handsomely printed and illustrated, and containing interesting information. The city has been growing fast in recent years, and is now estimated to have 60,000 inhabitants. The city has 141 miles of streets, of which 13 are

paved with granite and 11 with macadam. The area of city parks amounts to 106 acres. Water is obtained from Sebago Lake, eighteen miles from the city, furnishing an abundant supply of pure water. Fifteen foreign and domestic steamship lines sail from the port, which has one of the deepest and best harbors on the Atlantic coast; this circumstance, and the fact that the city is located several hundred miles nearer Montreal by rail than any Canadian port, bring it a large trade through the Grand Trunk Railroad, and to this it owes no small share of its prosperity.

MARYLAND, Baltimore.—The city has been in the habit of constructing the inlets of storm water sewers without iron gratings. This has been done to avoid danger of the drains becoming clogged during a severe storm. The recent death of a child who was swept into a sewer and drowned during a storm has called public attention to the matter. A well-known civil engineer is quoted as saying: "All this talk that grating cannot be placed to protect these dangerous sewerage inlets is absolute folly. These places should be protected by curved iron bars placed perpendicularly not more than eight inches apart. The argument that such gratings would cause the sewer to choke up during a storm is all bosh. There should be nothing on the street that will not go through an eight-inch opening. We are not living in the woods, where the ground is covered with brush and leaves. This is a city. If there is anything in the streets that will not go through an eight-inch opening, then the streets are not being cleaned as they should be. If the city officials are afraid to place iron bars eight inches apart, let them place them two feet apart if they will. This will at least give a child some chance for its life, as it might catch hold of such a bar and hold on until rescued. As it is, there is nothing."

MASSACHUSETTS, Boston.—The first assessment of the metropolitan park tax under the arrangement made last year increases Boston's tax from \$360,279.74 to \$608,794.96 out of a total tax of \$906,435.94 for this year. This, however, includes a deficiency in the previous year's tax, according to the readjusted rates. Of the thirty-nine cities and towns in the metropolitan park system, Cohasset also has a small sum of \$99.89 returned. The total tax is \$186,000 more than last year, and includes \$100,000 spent for the suppression of the gypsy moth.

Holyoke.—The work of repaving High street has begun at Dwight street, and will proceed as far as Appleton street this year. A proposition to take the blocks from High street and relay them the other side upon some of the intersecting streets is under discussion.

Methuen.—The Henry Coffin Nevins Home for Aged and Incurable Persons was opened July 9. The building covers an area of 8,000 square feet and sets back 200 feet from the street in the eight acres of land which belong to it. The buildings have cost \$100,000; the institution has a liberal endowment, and will be maintained primarily for the benefit of inhabitants of Methuen and Lawrence.

Newburyport.—Mayor Houston has filed a veto on the action of the City Council in adopting the recent report of the special committee on investigating the Poor Department. The report made charges against the department. One of the overseers has resigned.

South Framingham.—The regulations made by the Metropolitan Water and Sewage Board, which prohibit boating on Lake Cochituate, except by those who have received licenses, have moved the people of neighboring towns to take action which shall determine the rights of citizens of the Commonwealth.

MICHIGAN, Detroit.—In a recent address before the Business Men's Class, Alderman Jeffries championed the ownership by the city of public utilities as a means of freeing public office and elections of much of the corruption now commonly associated with them. He asserted that statistics invariably show that municipalities, wherever engaged in conducting public utilities, furnish public service for much less than private corporations. I need but cite your own public lighting plant to bear this out. There is not a private corporation in this country furnishing public lighting as cheaply as the Public Lighting Commission of our city; this, too, in spite of the fact that our investment in the public lighting plant lies idle for one-half of the day, because it cannot, under the law, sell light for commercial purposes.

Grand Rapids.—During the recent period of low water in the Grand river officials and employes in warehouses and others in the vicinity of the Fulton street sewer outlet were annoyed by the odors and have complained to the health officer. It is believed that the trouble can be obviated by extending the outlet into deeper water. A government dredge and a sand dredge are now working in the river near the city removing sand bars and deepening the channel.

MINNESOTA, Frazee.—The Northern Pacific Railroad has a dangerous crossing at this point. An unknown man was recently killed by a fast through freight; a woman had a narrow escape on the day of the inquest. A tower and watchman are needed at the crossing.

Minneapolis.—The Washington avenue bridge was reopened July 16. The creosoted paving has been finished, but it will take another week to complete the approaches. When the bridge is finished there will be ample room for the passing of teams on either side of the street car tracks.

St. Paul.—Whether it is shortsightedness or mere want of initiative, the failure of the owners of property in the Seventh Ward, between Dale and Victoria, to pave their streets is remarkable. The district east of Dale street is paved from end to end with asphalt, and even most of the alleys are paved with brick. There is not an east and west avenue, or a cross street from Marshall to Summit and from the Selby hill to Dale street that is not asphalted. But beyond Dale street, except for a few blocks of asphalt on Marshall, Selby and Dayton, and the gravel on Summit avenue, there is not a foot of improved roadbed.

MISSISSIPPI, Columbia.—Work is progressing rapidly on the sewerage and drainage system, and the Town Council has just made an additional contract with the contractors for an extension of the work so as to include all of the business portion of Main street. It is expected that the property-holders in the residence district along Main street will have the mains further extended. The town is steadily improving all the time. The burned district is being built up in brick, and there is talk of the erection of a fine brick hotel at the corner of Main street and immediately fronting the public square.

MISSOURI, St. Joseph.—The struggle between the saloon men and the police over the closing of barrooms under the Sunday law has resulted in partial victory for the former in the courts. Mayor Spratt, who opposes the opening of saloons, and who vetoed the measure under which they are run on Sundays, is quoted as saying: "I believe the Andriano ordinance is contrary to the general State laws and is detrimental to the moral welfare of the community. I will most surely sign an ordinance to repeal this law. It remains for every man, woman and child in this city to get busy and remain so until the last vote is recorded for the repeal of the measure."

St. Louis.—P. J. Regan, Register of the city, has submitted his report for the fiscal year, ending April 9, 1906, to Mayor Wells. He calls attention to the reduction in the cost of printing. "The cost of printing and binding for the several departments has been greatly reduced," the report says. "In many instances, blank books, printing and stationery have been duplicated for less than one-half the amount the city paid for them heretofore." Mr. Regan advises that the heads of departments refrain from having their annual reports printed prior to the Mayor's messages, which are compilations of reports from all departments. Attention is called to the fact that during the fiscal year there were filed with the register 355 ordinances, 456 contracts, signed by the Board of Public Improvements, 156 contracts signed by the Commissioner of Supplies, 15 miscellaneous contracts, 505 bonds and 491 acceptances. The cash received and turned over to the City Treasurer for dental and druggists' certificates, for certified copies of documents and revised ordinances, amounted to \$634.35. Printing and advertising amounting to \$9,957.45, and printing and binding amounting to \$5,024.87, and contracted prior to April 26, 1905, have been approved in vouchers sent to the auditor by Mr. Regan. The printing and binding since April 25, 1905, as shown in the report, follows: Printing and binding for the several departments, \$24,282.77; printing and advertising in the newspapers, \$24,226.96; included in the printing and binding account is an amount of \$1,522.25. This makes a total of \$63,472.05 for the year.

Webb City.—The local Council has refused to grant a satisfactory franchise in connection with the Rawlings street railway project. It is stated that the right of way between Joplin and Chanute, Kan., has been given free of charge and that within a few weeks a force of 2,000 men will be at work on the grade. Four hundred men will begin at Coffeyville and work toward Independence and Cherryvale; 400 will begin at Chanute and work toward Parsons; 400 will begin at Joplin and work toward Parsons, and 400 will work from Parsons toward Joplin. As soon as the Webb City franchise is definitely settled a large force of men will be started at Carthage.

MONTANA, Butte.—Electric light franchises occupy the attention of the City Council. The Butte Electric and Power

Company has offered to make a 2 per cent. rebate and a new company will be forced to make a similar offer if it does business in this city. The question of discounts will also be taken up and the new company will be compelled to stipulate a regular discount rate if it enters the field.

Great Falls.—The latest report of the City Treasurer for the month of June shows a balance in the treasury at the end of the month of \$24,840.90, the receipts for the month amounting to \$6,534.93, and the disbursements to \$22,760.44.

Helena.—The report of State Treasurer Rice for the month ended June 30 shows a balance on hand of \$522,962.78. During June there was paid out \$88,354.97, and there was received \$62,236.75.

NEBRASKA, Omaha.—The City Treasurer has discovered what may be a forgery of an issue of Omaha city bonds. Duplicate coupons of the 4½ per cent. refunding bonds of 1905, have been received from the Derby Savings Bank of Derby, Conn., and from the Mechanics and Farmers' Bank of Bridgeport, Conn. The issue of these bonds was originally purchased by Moore & Baker, bond buyers of Boston. To what extent the duplication has extended has not yet developed. The Treasurer is awaiting further developments.

NEW JERSEY, Jersey City.—Plans for improving Newark Plankroad were adopted at a joint meeting of the Essex and Hudson County Committees on South Bridges recently, and the work of carrying through the improvement has at last been started. The total cost will be about \$1,200,000, which will also include a new bridge over the Passaic river and the widening of the road into a driveway of 100 feet. About one-quarter of the expense will probably be borne by the Public Service Corporation, and three-eighths of the balance will be borne by Hudson County, while Essex County will have to pay the balance. Engineer Ralph Earle's plans call for a 100-foot roadway, the centre of which will be set aside for trolley cars—a twenty-one foot space being reserved for that purpose and which will be paid for entirely by the trolley company and maintained by them. On either side of the trolley line will be a twenty-eight foot roadway. Four kinds of pavements are mentioned in the specifications—iron slag block, wood block, granite block and bitulithic block pavement. Three kinds of curbing are mentioned, blue stone, Medina stone and steel bound combination curb and gutter.

Paterson.—The Board of Chosen Freeholders of Passaic county are contemplating treating sections of the country roads with a preparation of crude oil to preserve them from the effect of the great traffic of automobiles. Unless it be the roads from New York to Philadelphia, no county roads in the State are more used by autoists than the roads in this county which lead to Greenwood Lake, Lake Hopatcong, Echo Lake and other inland New Jersey pleasure grounds.

NEW MEXICO, Santa Fe.—The following tax levy for city and school purposes was made for the fiscal year ending April 15, 1907: For general purposes, ten mills; interest on bonds, three mills; support and maintenance of schools, five mills; interest on school bonds, three mills. The Committee on Streets and Bridges reported favorably on the opening of Boutolph avenue from College street to Garcia street. The Plaza was the scene of great activity a few nights ago, the occasion being the Plaza fete given by the Woman's Board of Trade. Financially the fete was perhaps the most successful ever given. The receipts exceeded \$500.

NEW YORK, Lockport.—The Economy Light and Fuel Company and the Lockport Gas and Electric Light Company recently indulged in a novel kind of competitive warfare which has been enjoyed by citizens. The gas company has had a monopoly of lighting for years. The Economy company directors, as the American District Steam Company, have had a monopoly of heating in Lockport for a like period. Last winter the Economy, or Steam, company secured a franchise to sell electricity for light and power purposes. The gas company responded by getting a franchise for steam heating. One day the gas company started tearing up Main street for its steam mains. At midnight the steam company brought a gang of men from Buffalo to begin work just ahead of the gas company on their electric conduit trench. Dirt from the conduit trench would be thrown in the line mapped out by the gas company. Just as the steam company men began working the electric lights were suddenly extinguished. For an hour work was suspended, but the steam company rigged up lights of its own and the electric lights reappeared. The steam company has stolen a temporary march on its rival.

Rochester.—Mr. Hartung, the garbage contractor, is in a bad way with the complaints that have been registered against him during the month of June, and it is likely that

steps will be taken soon to get the work of disposing of the city's garbage out of his hands. A total of 581 complaints were recorded against the contractor last month and of these 459 were found valid and a fine of \$459 was imposed upon the contractor.

Syracuse.—Martin Canton, treasurer of the village of East Syracuse for the past ten years, is alleged to be \$10,000 short in his accounts as a result of having operated in the stock market. The Village Board held a meeting and decided to have the books examined.

Yonkers.—The Martin farm in the Seventh ward, consisting of 110 acres of land, has been purchased by Alexander Smith Cochran, the President of the Smith Carpet Works. He will improve the property and erect on it a sanitarium for the treatment of tuberculosis. The entire cost of land, improvements, buildings and equipment will be over \$500,000. When completed the entire plant will be turned over to the city, together with an endowment sufficient to pay all expenses for the first five years at least.

NORTH CAROLINA, Wilson.—This town has introduced a new form of "sport"—tramp racing. When a hobo "hits the town" he is arrested and incarcerated in the lockup. When several have been accumulated the whole lot is marched out into the public square. Across this a line is drawn and the tramps are told to line up. Hardly has the ragged line been formed when the Town Marshal confronts them, rawhide whip in hand, and informs them that one mile down the road is a ditch that marks the corporate limits of the town. At a given signal they are to start for the ditch, and it is to be distinctly understood that the hobo whose tattered coat tail last flutters across the ditch is to be treated to such a flogging as he will have cause to remember all the days of his life. "Line up an' toe the mark square," shouts the marshal. "Git set! Go!" The line surges, then breaks and off go the hoboes. The marshal and his assistants leap upon their waiting horses and are off after the flying tramps, catching up with them and spurring the ambition of the laggards with sharp warning flicks from their whips. As a matter of fact, no man has yet been flogged, but belief in the flogging of the last man across the ditch is firm and no tramp that has once run the race has ever been known to return to the town of Wilson.

NORTH DAKOTA, Grand Forks.—Arrangements are being completed by the officers of the Great Red River Valley Exposition to move the city of Grand Forks to Fargo on July 25, that being Grand Forks day at the State Fair. Last year Fargo was moved to this city and it is the policy of those interested in the fair in this city to raise Fargo one and retaliate for the treatment received last year by sending a bigger crowd to that city than it sent here.

Minot.—"Ten thousand people for Minot in 1908" will be the motto of the new Commercial Club. The club has issued a circular calling on every resident of the city to co-operate with the club in an attempt to reach that figure in 1908 and to advance the city in general. The circular says movements are on foot now for installing a cold storage plant, a wholesale hardware, a large lime and sand brick plant, a good machine shop and foundry and a dozen other enterprises. The city now has a paid secretary who is giving his entire time to the interests of the club.

OHIO, Chillicothe.—The business men of this city have served notice on the Scioto Valley Traction Company that every effort will be made to prevent its admission to the city, unless it agrees to come through the main business section. A mass meeting was held at the Court House and the ultimatum delivered by President George Smith of the board of trade is the result.

Cincinnati.—"The city's water is bad again, and is growing worse," was the warning given last week by City Bacteriologist Samson. His tests of Ohio river water showed colon bacillus and a particularly dangerous quantity of sewage matter in the water. "I took a trip up the river several days ago," said Mr. Samson, "and above the old Waterworks and below the new Waterworks I counted twenty-nine sewers and gullies pouring their filth into the river. Besides this there is the Little Miami river. All of this sewage pollutes the river above the point at which the drinking water is pumped into the reservoirs. It is no wonder that the water is bad. It has good reason to be bad."

Cleveland.—In all, the city plans to pave 197 streets next year, the greatest number ever paved, it is claimed, in any one city in the United States in one season. Some fifty-five miles will be covered. The average for the past five years has hovered around the 100 mark or twenty-five miles.

Toledo.—Taxes during the year 1907, if the Mayor's estimate holds, will be at the rate of 31.615 mills on the dollar,

or 1.615 mills more than the rate of 1906. This is based on an estimated tax duplicate of \$82,500,000. This rate, as set forth in the budget of Mayor Badger, submitted last week to Council, is much lower than was considered possible some months ago, all on account of the Aikin law. The revenues that have come to the city by reason of this measure going into effect have been large, and consequently the need of raising funds by taxation has been decreased.

Youngstown.—City Engineer Frank M. Lillie has received a letter from the engineer of grade crossings of the Erie railroad stating that he has been instructed to consult with him in reference to the abolition of grade crossings which the railroad desires to bring about. The Lake Shore and the Pennsylvania railroads are already making plans in conjunction with the city to abolish their grade crossings.

OKLAHOMA, Beaver City.—Two sanitary enthusiasts are cattle inspectors of this city. Having, as they believed, contracted mange in the course of their duties, they set about curing their trouble in an original manner, as follows: "We did not know just what to do to get rid of it," said one of them, "but knowing that the dipping required by the government for mangy cattle was good for live stock, I thought it ought to work also on humans, and took a plunge in the vat. I think it did a great deal of good and believe another plunge would be a sure cure."

OREGON, Portland.—W. T. Stranahan, secretary of the Humane Society, is agitating the question of public drinking fountains and will do the city good service if the matter receives the attention it deserves. There is hardly any improvement that would be appreciated by so many people. Nearly all cities in the East, especially those in New York and New England, have been provided with fountains for some years past, but none has been set up in Portland. The establishment of a reasonable number of them is inexpensive, and the cost of maintenance and consumption of water are trifling.

PENNSYLVANIA, Beaver Falls.—The advantages of building the Lake Erie and Ohio River Ship Canal along the Beaver river route are untold. One important factor in the construction of the big water-way is stone that will stand the test. Along the Beaver river, just above this town, are beds of sand rock in apparently inexhaustible quantities. This stone will be utilized in the building of the canal and also for the nine-foot stage construction on the Ohio river in "On to Cairo" enterprise.

Bristol.—The city had a lively election recently and came out strongly for new and pure waterworks. The election was to decide whether the town should build the plant and increase its indebtedness by \$100,000, or sustain the old waterworks. The five wards cast a big vote, and those in favor of the new plant voted "yes"; those against "no." The pure water voters won by 773 majority. The legality of the bond issue will, however, have to be passed on by the courts.

Philadelphia.—Dr. Abbott, of the Board of Health, states that contemplated improvement in local slaughter houses will afford temporary relief "but there can be no permanent relief until we have a city abattoir in a centralized place. I don't know whether we will get it soon or not. There is no money in sight at present for its construction, but it is a crying necessity. There ought to be a centralization of the slaughter of cattle for city consumption. There is not room enough now in any central private abattoir for all the butchers who kill. Some of the smaller butchers say, too, that all are not treated alike in private abattoirs. I do not see why the city should not take under its control so important a thing to the public health as the slaughtering of cattle. It performs other public utilities. It owns its own waterworks. It owned its own gas for a while till it changed its mind about the matter. I don't see why it should not undertake this business. German and other European cities, which are way ahead of us in this respect, maintain centralized public abattoirs. When I was a student in Munich I visited the public abattoir and was profoundly impressed with the great cleanliness everywhere prevalent. Many of the employees were trained veterinarians. I don't know whether any American cities maintain such institutions, but it would pay them well to do so."

Pittsburg.—The entire downtown section of the city is in danger of the shutting off of its water supply on account of the damage to the water mains from electrolysis, which is constantly going on in the section between Eleventh and Thirty-fourth streets. The danger is not sufficient to warrant a general scare, but it exists sufficiently to cause the Water Bureau to keep a man on patrol duty night and day, watching for breaks in the two big mains on Penn avenue and Liberty street. The destruction of the pipes is, more-

over, constantly on the increase, and is so great that Public Works Director James W. Clark threatens equity proceedings against the Pittsburgh Railways Company within ten days unless something is done to put a stop to it. A short time ago the railways company agreed to remedy the evil, and verbal assurances were given that the remedy recommended by E. E. Brownell, the Chicago expert who completed an electrolytic survey of the city nearly a year ago, would be adopted. Nothing has been done, however, and Mr. Clark is impatient for the railways company to start work.

Pottsville.—War on the deadly mosquito as a carrier of disease germs has been brought into this section by State Health Commissioner Dixon, and tens of thousands of the little pests were cremated in their breeding places in swamps by pouring oil on the waters and setting fire to it. The employes of the bureau were also provided with special apparatus to catch rare bugs for Governor Pennypacker's collection.

RHODE ISLAND, Providence.—The City Council Committee having in charge the revision of the building laws of the city met recently to straighten out a peculiar and awkward situation. Although there is no apparent friction between the committee and the several business associations with which it was planned to confer when the City Council body was created, a legal hitch has arisen that has so far prevented any action by any of the various bodies, and has, in fact, held up the whole revision project. The opinion of Judge Cooke, one of the Council Committee, is that the committee was created to take action on whatever the other associations might recommend; that it was not intended for the Council Committee to lose its identity by uniting with the other and much larger committee, and that, further, having its own head and clerk, was, by virtue of membership in the City Council, bound to hold aloof from any private or business organizations.

SOUTH CAROLINA, Anderson.—Samples of water taken from different parts of the city were submitted to Mr. A. Merritt of Boston a short time ago to analyze. The report of the chemist has been made public, and he pronounces the water safe and suitable in every respect.

Columbia.—Mr. R. C. Keenan, Chairman of the Council's Committee on Streets, has stated that as soon as the City Engineer, Mr. Chisholm, returns from Boston, work will begin on the rehabilitation of the old rock crushing plant at the quarry on Huger street near Pendleton.

SOUTH DAKOTA, Aberdeen.—Aberdeen will have a 15,000 club organized within the next few days. The preliminary steps have been taken by Gen. S. H. Jumper and Charles Howard. The principal object of the proposed club is to make Aberdeen's growth, rapid as it is and has been, even greater both industrially and in population, and to use every legitimate means to bring the population up to 15,000 before 1910. In order to do this, a systematic campaign of advertising will be entered upon and a committee will inform itself regarding the many advantages of Aberdeen and get busy in the dissemination of this information. It is planned also to adopt a plan of advertising in order that capital seeking investment may be interested and induced to locate there. A mass meeting will be called in a short time, when the new club will be organized and officers elected.

TENNESSEE, Bristol.—The city of Bristol takes charge of the water system of the Bristol-Goodson Water Company and will hereafter run the same. The amount paid for the lease is \$7,500 per annum. Water Commissioner Blevins will control the system for the city.

Chattanooga.—The information conveyed to the public by Mr. D. J. Duncan, general manager of the Chattanooga Railways Company, to the effect that the company's tracks are to be entirely rebuilt where there are light rails and faulty roadbeds, is gratifying intelligence. Mr. Duncan has more than once made it plain that better schedules and more satisfactory service were well-nigh impossible under the present demoralized physical condition of large sections of the company's tracks.

Knoxville.—The police force is after the vagrants again. If this idle element could be permanently driven out of our cities and forced to the farms, where labor is necessary, it would be a good thing for the vagrants as well as for the farmers, who are short of help just at this season of the year.

TEXAS, Belton.—Recently the Chief of the Belton Fire Department called a meeting to consider several plans for a new fire station. The members have worked hard toward a station and have succeeded in raising a snug sum. The money has been secured from dinners, concerts, etc.

Cleburne.—The waterworks company, the citizens residing in the southeastern portion of the city and the City Council have joined forces to extend the water mains to the cemetery, giving water to a portion of the city en route, that has hitherto been without the privilege.

Corsicana.—A few days ago a number of boys climbed to the dome of the new Courthouse and, in an indiscreet moment, placed the initial letters of their names on the dial of the clock. Officers made an investigation, with the result that the boys were placed under bonds.

Fort Worth.—The wooden dam on the Clear Fork of the Trinity River at the city park caught fire and was partially destroyed. The water at the dam was very low, and enabled the fire to eat its way without interruption.

Marlin.—An Austin company has made an offer to buy the Marlin waterworks plant and the City Council has appointed a special committee to confer with the parties and report at the next meeting of the Council as to the proposition made by them. In the waterworks system the city has an interest amounting to a little more than \$18,000, and A. R. Wright, the constructor and present manager, has an equity of \$15,000.

Waco.—This county, McLennan, has everything ready to put in a light plant of its own to supply lights to the courthouse and jail and three engines are being made especially for this plant. The engines will be ready in a short time and will be installed at once. The commissioners talked of sinking an artesian well and having a county water supply, but gave this up temporarily.

UTAH, Salt Lake.—Mr. P. J. Moran, contractor, now has nearly half a million dollars' worth of contract work on hand; his last award was about a hundred thousand dollars' worth of macadamizing. Other work he has already, includes the building of the Big Cottonwood conduit and repairing of asphalt pavements.

VERMONT, Danby.—At a special town meeting the voters of the town accepted the vault presented by the late Silas L. Griffith, known as the lumber king of New England, and the bequest of \$15,000, for the benefit of the schools of Mt. Tabor and Danby, jointly, which sum has been held in trust since the death of Mr. Griffith by W. H. Griffith and George L. Rice. Mr. Griffith left to the village of Danby about \$50,000, all of which has been received.

VIRGINIA, Alexandria.—At a recent meeting of the Council bids were opened for the purchase of the city's lighting plant and prices made for furnishing lights. There were five bidders and prices varied from \$5,000 to \$20,000 for plant and franchise. Prices bid for furnishing lights were from \$65 to \$85.

Norfolk.—The Council is considering the advisability of establishing a municipal lighting plant. Alderman Tyler is quoted as saying that the city should own its own lighting plant even before purchasing parks.

WASHINGTON, Seattle.—Howard street bridge, No. 4, is liable to fall with its own weight. This startling announcement as to the bridge over the north channel was made by Engineer George T. Forsyth, the bridge expert, in making report to the City Commissioners and a special committee from the Chamber of Commerce and City Council was selected to ascertain the condition of all city bridges. Engineer Forsyth has examined bridges Nos. 3 and 4 on Howard street, Mission avenue bridge, Washington street bridge and the big trestle and bridge over Hangman creek. He recommends that all the bridges examined by him be replaced with new structures as soon as possible, with the exception of the high trestle across Hangman creek.

WEST VIRGINIA, Elm Grove.—The officials are encountering some difficulties in regard to the mode of paving the pike through the town, and just what the outcome will be is a question for the future. It seems that at the time the amount of the bond issue was decided the officials were not aware of what the improvements would cost, and they have since discovered the amount would not be sufficient to cover the cost of the work and they are now racking their brains to discover some plan to meet the situation.

WISCONSIN, De Pere.—The city Water Department is installing water meters at all places consuming a large quantity of water. It is the intention of the board to meter the entire system. A committee has been appointed to determine on new water rates.

Eau Claire.—City Attorney Larson reports that, according to the statutes of 1898, the taxes paid by the street railway company and the light and power company should have been

divided, in proportion to the length of tracks or wires, among the various wards.

Green Bay.—The first asphalt pavement in this city is being laid on Main street.

Jaynesville.—By the adoption of an order introduced by Alderman Fish the city decided to label all streets in the city with signs costing not more than thirty cents a piece, the same to be nailed to telegraph poles.

Kenosha.—After years of suffering the residents are to be relieved from the awful stench that has always dominated in the vicinity of the Allen tannery in that city, and as a result of the efforts of Mayor Gorman and the City Council the officials of the tannery have expressed a willingness to clean up the river which has heretofore been used as a sewer and install a private catch basin into which will be drained all refuse matter.

Superior.—Superior is said to be the only city in the United States with 40,000 inhabitants that has no compulsory sewer ordinance. The laxity of Superior in this particular is doubtless due to the fact that the excellent climate and the lake air have caused such a high standard of public health that the need of a compulsory ordinance with reference to sewer connection has not been brought effectively to public attention.

CANADA, Calgary.—A local light and power company utilizing the only available water power was exacting somewhat extortionate rates and refused to make any concessions. The consequence was that the entire population except some thirty-five citizens authorized the installation of a municipal light plant. The plant was started and brought about an immediate reduction of 20 per cent. in the light rates of the private company. But at the end of the year the city plant was found to have been operated at a loss. Thereupon the city proposed to go into the business of selling power as well as light. In the resulting discussion it was brought out that although practically every one in town had voted for the public plant comparatively few were supporting it with their business.

Hamilton.—Chairman Wild, of the Works Department of the Parks Board, believes in practising what he preaches evidently. At a recent meeting he urged the beautification of lawns, and then proceeded to carrying out the idea in his own case. He got nearly all his neighbors to plant beds of flowers of uniform shape and size, and it is suspected superintended most of the job. The beds are now looking beautiful, and this little section is a credit to the city.

Montreal.—At the next meeting of the Parks and Ferries Committee an investigation will be held respecting the ferry service between the city and St. Helen's Island. A member of the Parks Committee said: "It is quite certain that the contractor who runs the boats will have to give a better service. The Parks Committee intends to make an inquiry into it. If the contractor cannot see his way clear to run boats every half hour, as per his contract, the committee will declare that the contract is null and void. The committee will then call for new tenders."

St. Boniface.—The town is keeping pace with its neighbor across the river, the city of Winnipeg. The Town Council is spending this year over \$500,000 for improvements of all kinds.

Toronto.—Dr. Sheard, medical health officer, has consented to Dr. Kemp experimenting on the city streets with westrumite, which it is claimed will lay the dust more than water or any other solution. It will be tried on the macadam roadways first, and if satisfactory, the medical health officer will probably secure a supply.

Winnipeg.—It is not likely that the determination of the Main street property owners to have that street paved with creosote blocks will be interfered with. If any citizen has any doubts as to the real character of this pavement he can satisfy himself by examining that being put down in front of the new C. P. R. depot.

A Cliplet

Little beds of flowers,
Little coats of paint,
Make a pleasant cottage
Out of one that ain't.

—Exchange.

NOTES—QUERIES— CORRESPONDENCE

QUESTION.—Have you ever published any information in regard to the form, size, etc., of sounding shells for park band stands; if not, could you refer me to any book or publication giving the desired information which is required, particularly in the form to give the best acoustic properties?

ANSWER.—We have consulted various park officials, but they cannot help us. We recommend you to communicate with the proprietor of the Manhattan Hotel, Long Island, N. Y. This hotel has had a sounding board and the proprietor will doubtless give you full particulars.

QUESTION.—Please inform me where I can purchase a number of corrugated iron or steel waste paper rubbish boxes such as sit around on street corners of cities. Also the circular barrel like rubbish boxes for ashes, etc.

C. E. W.

ANSWER.—Look over our several recent numbers and in the advertising columns where you will find much valuable information on the subject.

QUESTION.—We are advocating municipal ownership of our electric-light plant and are desirous of data showing operations of electric-light plants under municipal ownership in other cities. Is there any information you can furnish us on this line?

ANSWER.—American conditions of Municipal Ownership, so far as they relate to electric companies, are dealt with by M. J. Francisco, Rutland, Vt. His conclusions are unfavorable to Municipal Ownership. A great deal has been written on the subject in magazines. Prof. Frank Parsons, Boston University, Mass., has written and spoken frequently in favor of government ownership generally.

Editor MUNICIPAL JOURNAL AND ENGINEER,
Flatiron Building, New York City:

DEAR SIR:—Would it be possible, through the columns of your publication, to give widespread expression to a protest from a sufferer. My complaint is against the system which this city has for the collection of garbage. It is a disgrace to the fair name of the metropolis, and it is not venturing too much to say that there are few cities of a size to warrant their being called a city that have not more stringent regulations on the subject—or at least enforce those regulations which have been enacted in a manner to prevent the spread of the disease-breeding odors. In the days of Col. Waring, citizens of New York might well boast of the work of its Street Cleaning Department—now discredited in more ways than one—for then the officials at least used their efforts to perfect the system in the best interests of the public. In those days it was necessary to have a canvas cover over dust carts and all other vehicles which carried refuse, not to mention the garbage carts. What is the condition to-day? This can be answered by practically every citizen who is not connected with the Department; the officials there apparently keep their eyes, or, to be more exact, their nostrils closed. They do not appear to be greeted on every block with the sickening stench which floats from the uncovered wagons lined up in front of hotels, cafés and boarding-houses. It is yet early in the summer, and while untold damage has undoubtedly been done, there is much time in which to accomplish good. Let the officials here bestir themselves, for there is much need of it, and let city officials elsewhere see that everything possible is being done in this line. There is no reason why we forced stay-at-homes should suffer, even though the bathing fraternity are constantly reminded that Barren Island has passed away in smoke.

New York, N. Y.

J. D. L.

Editor MUNICIPAL JOURNAL AND ENGINEER,
Flatiron Building, New York City:

DEAR SIR:—In your June issue, page 529, speaking of crowns for streets, you recommend Byrnes' table, allowing a crown of 1-100 of the width of roadway for an asphalt pavement. For a thirty-foot street this means a crown of a trifle more than four inches. From a practical standpoint I think this too small; I prefer a five or six-inch crown. In the first place, there is no limit of safety in the case of a small settlement of the crown in rolling—a matter that can hardly be allowed for, as it only occurs at times, yet if you are working on a low crown it will cause expense that could otherwise be avoided. Besides this—another factor of safety—some allowance should be made for wear or settlement of the crown in the future. Anyway, it is a fact that most practical men favor five or six-inch crowns for thirty-foot streets, although in wider streets they do not care for as high a ratio of crown to width.

Buffalo, N. Y.

J. B. S.

WATER WORKS CONVENTION

Twenty-sixth Annual Session of American Association at
Boston—Officers Elected—Representative
Firms—Toronto Next Year

BOSTON, MASS., was unusually active from Monday the 10th to Friday the 14th, inclusive, these being the days taken up by the twenty-sixth annual session of the association. Saturday was an off day, with excursions to Wachusett Dam and Lexington. Then all to home.

The convention was a success from beginning to end. Apart from the mass of business to be gone through, there were no less than twenty-eight papers disposed of on all sorts of subjects, together with discussions on some of them. The register of attendance showed that some 550 people were present, 174 of them being active members and the remainder associate members and guests. The officers elected were: Dabney H. Maury, consulting engineer waterworks company, Peoria, Ill., president; George H. Felix, of Reading, Pa., first vice-president; John B. Heim, superintendent waterworks, Madison, Wis., second vice-president; Alexander Milne, superintendent waterworks St. Catharines, Ont., third vice-president; E. B. French, superintendent of Hackensack waterworks, of New Jersey, fourth vice-president; Prof. W. P. Mason, of the Troy Polytechnic School, fifth vice-president; H. E. Keeler, of Chicago, Howard A. Dill, superintendent waterworks, Richmond, Ind., A. A. Tucker, superintendent Mains, water department, Memphis, Tenn., finance committee; John M. Diven, of Charleston, S. C., secretary treasurer.

Charles H. Campbell, of Atlanta, Ga., was elected the representative of the association at the sessions of the National Fire Protection Association.

The vote for third vice-president was very close, Alexander Milne, the winner, receiving 62 votes, and William P. Mason 60. The vote for fourth vice-president resulted: E. B. French 64, Jerry O'Shaughnessy 51, and on motion of Mr. O'Shaughnessy was made unanimous. The vote for fifth vice-president was W. P. Mason 59, Jerry O'Shaughnessy 50. There was no contest for the other offices.

It was voted that the next session of the convention should be held in Toronto. Out of 147 ballots cast Toronto had 97, though Atlantic City and Milwaukee each had a good number of votes.

It was the sentiment of the meeting that the officers be instructed to confer with the officers of the Central States Waterworks Association with a view to amalgamation, and a vote to this effect was passed.

Among the firms which exhibited or were represented were:

Ross Valve Co., Troy, N. Y.—Reduction and regulating valves, Ross Water Engines and Feed Water Filters for land and marine boilers.

Joseph T. Ryerson & Son, Chicago, Ill.—Morrison Suspension Furnace Boiler.

Hersey Mfg. Co., South Boston, Mass.—Hersey Disc Meters, Hersey Rotary Meters, Hersey Torrent Meters, Hersey Detector Meters.

Buffalo Meter Co., Buffalo, N. Y.—Niagara and American Meters.

The A. P. Smith Co., Newark, N. J.—Smith Patent Tapping Machine and waterworks supplies.

Pittsburg Meter Co., East Pittsburg, Pa.—Keystone Water Meters.

Lead Lined Iron Pipe Co., Wakefield, Mass.—Lead lined and tin lined pipe.

H. Mueller Mfg. Co., Decatur, Ill.—Waterworks supplies, tapping machines, Premier and Columbia Pipe Threaders, one of the most complete exhibits.

Thomas Watkins, Johnstown, Pa.—Watkins Patent Pipe Joints.

Cancos Mfg. Co., Philadelphia, Pa.—Black Squadron Packing for water, steam and ammonia.

Glauber Brass Mfg. Co., Cleveland, O.—Waterworks and plumbers' brass goods.

Waterworks Equipment Co., 18 Broadway, New York City.—Tapping machines and pipe cutters.

Thomson Meter Co., Brooklyn, N. Y.—Lambert Meters.

Excelsior Wooden Pipe Co., San Francisco, Cal., and 220 Broadway, New York City.—Wooden water pipe.

Modern Iron Works, Quincy, Ill.—Service boxes.

H. W. Clark, Mattoon, Ill.—Clark Meter Box.

East Jersey Pipe Co., 71 Broadway, New York City.—Lock-bar pipe.

Safety Meter Lock Co., Columbus, O.—Seals for meters.

Walworth Mfg. Co., Boston, Mass.—Pipe cutters, threaders, wrenches, cocks and valves and general waterworks supplies. Hall Tapping Machine.

Henry R. Worthington, 114 Liberty street, New York City.—Worthington Disc Meters.

Union Water Meter Co., Worcester, Mass.—King Disc Meters.

Pitometer Co., 220 Broadway, New York City.—Pitometers.

Venturi Meter, Builders' Iron Foundry, Providence, R. I.—Venturi Meters.

Central Foundry Co., 116 Nassau street, New York City.—Universal Pipe.

Fairbanks Co., Elm and Broome streets, New York City.—Hydrants and gate valves.

Chapman Valve Mfg. Co., Indian Orchard, Mass.—Valves and waterworks supplies.

Neptune Meter Co., 120 Liberty Street, New York City.—Tri-dent, crest, split case and single-speed water meters.

Hays Mfg. Co., Erie, Pa.—Brass and iron waterworks supplies.

Ellis-Ford Co., Detroit, Mich.—Pipe-cutting machines.

National Meter Co., New York City.

Personals

KRAMER, MRS. MARGARET, recently installed as matron of the Detroit, Mich., City Hall, is the only woman appointee of the Common Council. For six years she was janitress of the building and was selected for the new position from a score or more of applicants.

MACFARLAND, HENRY B. F., President of the Board of Commissioners of the District of Columbia, will spend two months in Europe on the first vacation he has enjoyed for years.

MCCARTHY, JAMES W., President of the Board of Aldermen, Jersey City, N. J., will be the Chief Executive during the absence of Mayor Mark M. Fagan, who begins a month's vacation July 21. In case of death, but not in case of absence or resignation, the President of the Board of Finance, according to law, assumes the office of Mayor.

McGOWAN, PATRICK F., President of the Board of Aldermen, is Acting Mayor of New York, during the absence of Mayor George B. McClellan, who is on a European tour.

PERKINS, CHARLES E., has been reappointed by Governor Harris as Chief Engineer of the Public Works of Ohio. He will have complete control of the engineering features of the work of rehabilitating the canals of the State, for which large sums have been appropriated, and, under a law enacted during the closing days of the last Legislature, is given power to appoint his assistants without submitting them to the Board of Public Works for approval.

REID, TODD, Chief of Police of West Point, Ga., has been elected Chief of Police of LaGrange, Ga., vice H. U. Brady, who resigned to accept the management of a new security warehouse.

ROONEY, JOHN A., a well-known contractor of Boston, Mass., has been appointed Building Commissioner of the city by Mayor John F. Fitzgerald.

SHEAFF & JAATED, of Boston, Mass., electrical and mechanical engineers, have been engaged by the Electrical Commissioners of North Attleboro to draw up plans and specifications and award the contract for installing machinery in the electric light station to furnish commercial power during the day; the town may have to be rewired.

TOWNSEND, SYLVESTER D., City Solicitor of Wilmington, Del., is getting into shape a new building ordinance prepared by Building Inspector William M. Connelly.

WEST, JOHN T., Mayor of Pueblo, Col., and Miss West were among those who attended the "Home Coming" at Louisville, Ky., recently.

WHITEN, HARRY F., has been elected City Treasurer of Newburyport, Mass., vice James V. Felker, who is charged with embezzlement.

Some Unusual Fires

BEAUMONT, TEX.—Silsbee lumber mills, burned, July 5. Cause, hot belt in the mill. Amount of damage, \$700,000.

DETROIT, MICH.—Public Lighting Plant slightly burned, July 2. Cause, spontaneous combustion. Damage, slight.

GULFPORT, MISS.—Metropolitan Hotel building, City Jail, News office and other buildings burned, July 6. Explosions of alcoholic spirits in saloons heard for miles. Cause unknown. Amount of damage, \$125,000.

MYSTIC, IA.—Six blocks of the business portion of the town burned, July 6. Fire Department from Centerville, seven miles away, ran across country and saved the residences. Cause unknown. Amount of damage, \$200,000.

PALISADES PARK, N. J.—The Borough Hall, including the headquarters of the Fire Department, burned July 11. Cause unknown. Amount of damage, \$5,000.

ROCHESTER, N. Y.—Henry Scraggs, a dairyman, burned out, July 6. Milk proved an ineffective extinguisher and the Fire Department arrived too late. Cause unknown. Amount of damage, \$3,000.

ADVANCE AND WEEKLY CONTRACT NEWS

Relating to Municipal and Public Work—Street Improvements—Paving, Road Making, Cleaning and Sprinkling—Sewerage, Water Supply and Public Lighting—Fire Equipment and Supplies—Buildings, Bridges and Street Railways—Sanitation, Garbage and Waste Disposal—Police, Parks and Miscellaneous—Proposals and Awards

The Municipal Journal and Engineer wishes to obtain, at the earliest possible moment, advance and reliable information respecting all work projected. Any items sent us will be greatly appreciated. On request, copies containing such information will be mailed to you.

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The Municipal Journal and Engineer,
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by States.*

STREET IMPROVEMENTS

Thomasville, Ga.—The citizens have voted \$30,000 bonds to begin paving with vitrified brick; it will require the expenditure of about \$90,000 to improve the business section.

Kalamazoo, Mich.—The city is preparing to issue \$171,000 bonds for paving and other public improvements.

Opelousas, La.—An election will be held, August 14, to pass on proposition to issue \$30,000 paving bonds.

Omaha, Neb.—An ordinance has passed Council authorizing an issue of street improvement bonds.

Santa Fe, N. M.—The Finance Committee is considering the purchase of a new street sprinkler.

Ashland, O.—Bids will be opened, July 27, for \$8,800 Highland avenue and \$6,000 Center street, five per cent. improvement bonds.—A. P. Black, City Clerk.

Ashtabula, O.—Council is considering the issue of \$30,000 bonds to pave Main street.—Frank W. Wagner, Clerk.

Bucyrus, O.—The Council is arranging for the sale of street improvement bonds.

Cadiz, O.—Council is considering issue of \$10,000 street improvement bonds.—W. H. Lucas, Clerk.

Fremont, O.—Bids will be received, July 28, for the purchase of \$9,746 four per cent. paving bonds.—Address City Auditor.

Greenville, O.—Bids will be received, August 4, for \$23,345 4 per cent. street improvement bonds.—Address J. C. Katzenberger.

Norwalk, O.—Bids will be opened, August 2, for three sets of coupon bonds, aggregating \$39,500, bearing 4 per cent. interest; funds to be used for street improvements.—T. P. Kellogg, Auditor.

Portsmouth, O.—Bids will be received, July 31, for \$31,000 4 per cent. street improvement bonds.—Filmore Musser, Auditor.

Ravenna, O.—The Council will borrow \$2,500 for sidewalk improvements.

Toledo, O.—Bids will be opened, August 1, for \$80,000 3.65 per cent. general street improvement bonds to pay for paving and repaving a number of streets.—R. G. Bacon, City Auditor.

Youngstown, O.—Bids will be opened, August 6, for \$17,000 street improvement bonds, \$4,865 sidewalk bonds, \$8,700 Market street paving bonds, and \$9,350 Chalmers avenue paving bonds; all bearing 5 per cent. interest.—William I. Davies, City Clerk.

Youngstown, O.—Bids were invited, July 16, for \$11,500 paving bonds; \$29,850 paving bonds; \$2,145 paving bonds, and \$3,400 paving bonds; payable 1907-1911 inclusive, interest, 5 per cent.—William I. Davies, City Clerk.

Sharon Hill, Pa.—Bids will be opened, July 26, for \$30,000 4 per cent. 30-year street improvement bonds.—Joseph Baird, Treasurer.

PROPOSED WORK

Atlanta, Ga.—The Fulton County Commissioners have accepted a proposition of the

Southern Bitulithic Company, of Baltimore, Md., for paving Peachtree street from Ellis to Sixth street, with bitulithic, instead of asphalt, and the matter is now before Council.

Beardstown, Ill.—Contracts for paving several streets will be let early in August.

Evansville, Ind.—The Council has decided to improve First street.

Donaldsonville, La.—The Council has passed an ordinance providing for paving Mississippi street with asphalt; estimate, \$50,000.

Vicksburg, Miss.—Plans and estimates are being prepared for paving Washington street. Sengene Alken, City Engineer.

Buffalo, N. Y.—The Council is considering paving certain portions of South Park avenue.—J. N. Adam, Mayor.

Dunkirk, N. Y.—Estimates for paving have been made as follows: Railroad avenue, \$17,410 with asphalt and \$16,961 with brick; Wright avenue, \$6,270 with asphalt and \$6,296 with brick, and Fifth street, \$33,854 with either asphalt or brick.

Akron, O.—The paving of North Howard street is being considered by Council.

Athens, O.—Preliminary legislation has passed for paving Woodward avenue with brick or block.

Cadiz, O.—Preliminary legislation has passed for grading, draining, paving and curbing Market and Warren streets.

Chagrin Falls, O.—Legislation is being considered for paving Franklin avenue and Orange street with four-inch paving blocks.

Cleveland, O.—Council has passed an ordinance authorizing the Board of Public Service to expend \$2,600 for land to open Kelton street and \$5,200 for opening East 59th Place.—C. W. Lapp, President of the Council; Peter Witt, City Clerk.

Lorain, O.—Preliminary legislation for paving Vine street has passed Council; the paving of East Erie street, six blocks, is under consideration.

Portsmouth, O.—The Street Committee is considering improvements on Eleventh street, a petition having been presented by Ned M. Stanfield, on behalf of citizens, asking relief from floods during heavy rainstorms.

Ravenna, O.—Council is considering ordinances for constructing flagstone or cement walks on a number of streets.

Toledo, O.—Preliminary legislation has passed for grading, paving and curbing Orchard street.

Xenia, O.—Preliminary legislation has been enacted for setting the curb and paving the roadway in Second street.

Reading, Pa.—The Council is arranging to pave portions of Court street with vitrified brick.

CONTRACTS TO BE AWARDED

Leadville, Col.—Bids were received, July 16, for constructing cement walks, curbs and gutters; about 12,600 lineal feet.—George H. Colahan, City Clerk.

Wilmington, Del.—The Board of Education received bids, July 9, for grading, paving and curbing on lot at 30th and Madison streets.—E. L. Rice, Architect; W. Oscar Brown, Chairman, New Building Committee.

Washington, D. C.—Bids will be received, July 20, to lay asphalt-block pavements.—H. B. F. Macfarland, H. L. West, John Biddle, Commissioners, D. C.

Washington, D. C.—Bids will be opened, July 20, to pave various streets and avenues with sheet asphalt.—H. B. F. Macfarland, Henry L. West, John Biddle, Commissioners, D. C.

Washington, D. C.—Bids were received, July 14, for grading and regulating suburban streets and avenues. H. B. F. Macfarland, Henry L. West, John Biddle, Commissioners, D. C.

Danville, Ill.—Bids were received, July 16, for paving several streets.—Address Board of Local Improvements.

Peoria, Ill.—Bids will be open, July 23, for improving streets, requiring about 20,000 square feet brick paving, and 18,360 square feet cement curbing, and other material.—E. A. Curry, Chairman, Board of Public Improvements.

Centerville, Ia.—Bids were received by the City Clerk, July 10, for 32,000 square yards of brick paving; 23,370 lineal feet of cement curb, and 1,800 cubic yards of extra grading.—Iowa Engineering Company, Clinton, Engineers.

Davenport, Ia.—Bids will be opened, July 18, for improving streets, requiring 320,000 square yards, brick pavement on concrete foundation.—Thomas Murray, City Engineer.

Louisville, Ky.—Bids will be opened, July 20, for 44 pieces of new granitoid sidewalks in various parts of the city, mostly in South Louisville on Fourth, Third and K streets.—Board of Public Works.

Detroit, Mich.—Bids were received, July 13, for paving and repaving with cedar blocks and bricks, including curbing, excavation, etc., about a dozen streets; estimate, \$10,000.—J. J. Haarer, Commissioner of Public Works.

Grand Rapids, Mich.—Bids were opened, July 13, for resurfacing with sheet asphalt of Jefferson avenue, from State to Cherry streets.—James E. Keegan, President; Samuel A. Freshney, Secretary, Board of Public Works.

Detroit, Mich.—Bids were opened, July 6, for repaving with block brick on concrete foundation and Medina curb stone, a portion of Junction avenue.—J. J. Haarer, Commissioner of Public Works.

Detroit, Mich.—Bids were received, July 6, for repaving with sheet asphalt portions of Fourteenth and Calumet avenues.—J. J. Haarer, Commissioner of Public Works.

Detroit, Mich.—Bids were opened, July 6, for furnishing the city with four two-horse street flushing machines.—J. J. Haarer, Commissioner of Public Works.

Detroit, Mich.—Bids were opened, July 6, for paving Pine street and repaving Calumet avenue with cedar blocks on concrete foundation and placing curb stone.—J. J. Haarer, Commissioner of Public Works.

Grand Rapids, Mich.—Bids were opened, July 13, for resurfacing with sheet asphalt of North Ionia street, from Monroe street to Fountain street.—James E. Keegan, President; Samuel A. Freshney, Secretary, Board of Public Works.

Brooklyn, N. Y.—Bids will be opened, July 25, for regulating, grading and paving, with asphalt or wood block pavement, a number of streets.—Bird S. Coler, President, Borough of Brooklyn.

New York, N. Y.—Bids will be received, July 24, for regulating, grading, paving or repaving a number of streets in the Borough of Richmond.—George Cromwell, President.

Niles, O.—Bids will be received, July 23, for 39,000 square yards, asphalt block pavement and about 4,000 lineal feet, cement curb and gutter; also 6,400 feet, cement curb and gutter.—William Wilson, City Engineer.

Niles, O.—Bids will be opened, July 23, for paving Park avenue and North Main street with asphalt block, using cement curb.—J. E. Tregaskis, City Clerk.

Phœbus, Va.—Bids will be received, July 19, for improving Mellen, Mallory, Asylum and Water streets.—John C. Teemer, Town Recorder.

Milwaukee, Wis.—Bids were opened, July 13, for constructing asphalt pavement on National avenue; and for other street improvements.

CONTRACTS AWARDED

Hartford, Conn.—The Hartford Paving and Construction Company has been awarded contract for 5,000 feet of curbing on Park ace, at 87 cents per foot.

Savannah, Ga.—The Hastings Pavement Company has been awarded contract for paving 10,000 square yards on Gaston street.—George M. Gadsden, Director of Public Works.

Chicago, Ill.—The Barber Asphalt Company has the contract for paving Sacramento avenue from Twelfth to Kinzie streets.—West Park Board.

Waterloo, Ia.—The McCarthy Improvement Company, Davenport, has been awarded contract for 40,000 square yards of asphalt paving; estimate, \$80,000.

Opelousas, La.—Messrs. Ventre and Pulford have the contract for constructing about \$21,000 worth of sidewalks.

Brunswick, Me.—Richard D. Shanahan, Portland, has been awarded contract for macadamizing Main street, at \$7,346.

Baltimore, Md.—J. H. Gantz and Company have been awarded contract for paving Lexington street, between Charles and Liberty streets.

Detroit, Mich.—The Central Bitulithic Paving Company has been awarded the contract for repairing ten streets, at \$48,000.—J. J. Lister, Commissioner of Public Works.

Newton, Miss.—C. H. Doolittle has contract for grading at 35 cents a yard, and B. Harding, contract for constructing curbs, gutters and catch basins.—Charles L. Wood, Columbus, City Engineer.

Buffalo, N. Y.—Frank V. E. Bardol has been awarded contract to construct roadways in Lincoln Park, at \$9,230, and the Barber Asphalt Company paving Niagara Square, at \$17,964.—G. H. Selkirk, Secretary, Park Commissioners.

Nyack, N. Y.—The contract for paving a part of Broadway has been let to the Hastings Paving Company, New York City, at \$3,700.

Celina, O.—E. A. Freshwater & Sons, of Chester, W. Va., have been awarded the contract for paving West Market street with Metropolitan or Hocking Valley brick, at \$23,000.

Delaware, O.—Clarence Hazelton has been awarded the contract for macadamizing, curbing and guttering Wootring avenue.

Portsmouth, O.—The contract for supplying Huntington, W. Va., with 500,000 paving brick has been awarded the Carlisle Brick Company.

Altoona, Pa.—A contract has been awarded the Gantz Construction Company, Canton, O., for the following paving: 45,405.4 square yards, at \$1.74 per yard, \$79,005.40; 77,398.3 square yards, at \$1.77 per yard, \$136,994.99, and 19,772 square yards, at \$1.90 per yard, \$37,556.90, making a total of 142,575.7 square yards, at \$253,567.19; all to be upon six-inch Portland cement concrete foundation.—Harvey Linton, City Engineer.

Altoona, Pa.—The Board of Public Works has awarded the American Asphaltum and Rubber Company, Chicago, Ill., the contract for asphalt filler for 142,575.7 square yards, at 20¢ cents per yard, or \$29,227.96.—Harvey Linton, City Engineer.

Butler, Pa.—Paving contracts have been awarded as follows: First street, asphalt block, to Burns Brothers, \$13,908; East Jefferson street, to John Shaffner, \$5,170; Chestnut street, to F. E. McQueston, \$3,540; Wayne street, brick, to John Shaffner, \$12,420.

Lewistown, Pa.—R. W. Henson, Geneva, N. Y., has been awarded contract for grading, paving and curbing Market street.—R. W. Henson, Borough Engineer.

Patton, Pa.—The Phillipsburg Paving Company, Phillipsburg, has been awarded paving contract, at \$10,470.

Pittsburg, Pa.—Booth & Flinn have been awarded contract for repaving Blair street, at \$1.67 per square yard.

Seattle, Wash.—Gibson & Donovan have secured contract for grading 38th avenue, north, at \$7,582.

Fennimore, Wis.—Blake Brothers, Madison, have contract for paving, at \$3,012.—William Weaver, Village Clerk.

ROADS

Scottsburg, Ind.—Bids were opened, July 14, for constructing two miles of gravel road, known as the Zion road.—Frank Gardner, County Auditor.

Boston, Mass.—Bids were opened, July 10, for constructing a part of the Massachusetts Highway, in the town of Attleboro.—W. E. McClintock, Harold Parker, John H. Manning, Massachusetts Highway Commissioners.

Boston, Mass.—Bids were opened, July 10, for building a section of State highway, in the town of Charlton.—W. E. McClintock, Harold Parker, John H. Manning, Massachusetts Highway Commissioners.

Findlay, O.—Bids will be opened, July 30, for \$3,500 pipe improvement bonds.—John A. Sutton, Auditor, Hancock County.

Newark, O.—Bids will be opened, July 24, for grading and macadamizing a mile and a half of road at Summit Station.—Samuel Houston, State Highway Commissioner.

Warren, O.—Bids will be opened, August 4, for \$50,000 5 per cent. road improvement bonds.—J. C. Hassler, Clerk.

Wheeling, W. Va.—Bonds, \$12,000, are to be sold for paving the National Pike in the town of Fulton.

CONTRACTS AWARDED

Greenwich, Conn.—E. E. Burns has been awarded the contract for building road across the dam at Rockwood Lake, at \$12,000.

Hartford, Conn.—A Brazos & Sons, Middletown, has been awarded contract for constructing 3,255 feet of Telford road in West Hartford, at \$2.49 per foot; and to H. A. Davenport, Middletown, contract for 1,400 feet of macadam road in Pomfret, at \$5.31 per foot.

Swansea, Mass.—H. E. Cushing, Seekonk, has been awarded contract for constructing State road in Swansea, at \$5,327; and W. H. Magne, West Newton, one in Scituate, at \$5,281.

Concord, N. H.—C. A. Bailey, Suncook, has the contract for building roads in Boscawen, Candia and Bradford.—A. W. Dean, State Engineer.

Perrysburg, O.—Burr & Jeake, Abel, Ladd & Sneider and Srappt & Nichols have contracts for macadamizing three roads in Wood County, including draining, dragging and stone work.

Youngstown, O.—The Howley Construction Company has been sublet the contract for the Austintown road work, at \$43,000.—F. M. Lillie, City Engineer.

Ebensburg, Pa.—J. C. McSpadden, Pittsburg, has contract for constructing a portion of State road in Cambria township, at \$15,543.

Wheeling, W. Va.—The Commissioners of Ohio County have awarded contracts for macadamizing all roads in the county. The successful contractors are: C. A. Griffin, Frank Ridgely, B. G. Atkinson, Ely Johnson, H. C. Mozingo, N. D. Morrison, Edward Huch, T. S. Maxwell, Ed. Lyle, Elmer Armstrong, C. A. Steele, R. Mitchell, S. E. Caldwell, M. A. Marple, R. L. Shoot, Wm. Taggart, Jr., N. Nickerson, Wm. Danaman, G. L. Rhodes, Geo. H. Lautinger.

SEWERAGE

Fayetteville, Ark.—The Council is considering the advisability of issuing bonds for establishing a sewer system.

Crowley, La.—An election will be held to decide the question of issuing \$100,000 sewer and improvement bonds.

Opelousas, La.—The Board of Aldermen have called an election, August 14, to vote on issue of \$30,000 bonds for sewers.

Columbus, Miss.—Council has authorized the issue of \$60,000 bonds for extension of sewerage and water mains, Fire Department improvements, a new school building in East Columbus and improvements at Franklin Academy.

Independence, Mo.—The citizens have voted to issue \$30,000 bonds for sewers and lighting plant.

Ashland, O.—Bids will be received, July 27, for \$10,000 5 per cent. sewer improvement bonds.—A. P. Black, City Clerk.

Cleveland, O.—Council has voted to construct a sewer in West Boulevard, between Lorain avenue and 4,700 feet southerly, in accordance with plans and specifications; estimate, \$2,100.—Peter Witt, City Clerk; C. W. Lapp, President of the Council.

Hamilton, O.—Sanitary sewers will be constructed in Fourth street before paving is commenced.—Engineer Dillon.

Lorain, O.—Bonds, \$2,000, are to be sold for a sewer in South Broadway.

Springfield, O.—The Council has passed resolutions to construct sewers in McCreight avenue and Cassily street.—F. A. Crothers, Clerk.

Youngstown, O.—Bids were opened, July 16, for \$5,250 sewer bonds and \$375 sewer bonds; interest, 5 per cent.—William I. Davies, City Clerk.

Newcastle, Pa.—Plans are being considered for establishing a sewage disposal plant.

PROPOSED WORK

Washington, D. C.—The Commissioners have directed that sewers be constructed in Monroe street, east and west of 16th street; 13th street, north from Park road, and Lanier place, west from Ontario road.—John Biddle, Engineer Commissioner.

Live Oak, Fla.—An issue of \$200,000 bonds has been voted for sewerage, waterworks and City Hall.

Augusta, Ga.—An ordinance has been adopted for laying a vitrified pipe sewer, 8 to 15 miles on Pine street, from D'Antignac to Gwinnett street, and one, 8 to 12 miles, on Roberts street, from Dugas to Hopkins street.—R. E. Allen, Mayor; Wm. Lyon Martin, Clerk of Council.

Batavia, Ill.—Plans and specifications are being prepared for a sewer system; estimate, \$45,000.—Anderson & Schelow.

Decatur, Ill.—Bids will shortly be received for constructing concrete and tile sanitary sewer.—A. B. Alexander, City Engineer.

Des Moines, Ia.—The Council has directed that bids for a sewer system in Northwest Des Moines be invited.—Board of Public Works.

Lancaster, N. Y.—Plans are being prepared for a complete sewerage system.

Cleveland, O.—Council has passed ordinances to construct sewers in Denison avenue, S. W., between West 98th street and West 90th street, and in West 45th street, between Denison avenue, S. W., and Storer avenue, S. W., according to plans and specifications.—Peter Witt, City Clerk.

CONTRACTS TO BE AWARDED

Chicago, Ill.—Bids will be received, September 2, for constructing a transformer substation.—Clerk, Sanitary District, American Trust Building.

Boston, Mass.—Bids were received, July 11, for constructing sewers in Milk street, according to plans.—John J. Leahy, Superintendent of Sewers.

Grand Rapids, Mich.—Bids were opened by the Board of Public Works, July 13, for constructing a sewer to connect the Michigan Soldiers' Home, Kent County, with the city sewers.—James E. Keegan, President; Samuel A. Freshney, Secretary.

Biwabik, Minn.—Bids will be received, July 23, for constructing sewers, according to plans and specifications.—Duluth Engineering Company, Duluth, Engineers; T. M. Butler, Village Recorder.

Brooklyn, N. Y.—Separate bids will be received, July 25, for furnishing all the labor and materials necessary for constructing a sewer in 84th street from 20th to 21st avenues; one in 67th street from 4th to 5th avenues; one in Dean street from Ralph to Howard avenues, and sewer basins at Newkirk avenue, northeast and southeast corners.—Bird S. Coler, President, Borough of Brooklyn.

New York, N. Y.—Separate bids will be received, July 20, for seven sewers to be constructed according to plans and specifications.—John F. Ahearn, President, Borough of Manhattan.

Steubenville, O.—Bids will be opened, July 20, for laying sewers in North Seventh street.—W. Vance, Clerk, Board of Public Service.

CONTRACTS AWARDED

Burlingame, Col.—The contract for laying sewer pipe has been awarded E. W. McClellan.

Peabody, Mass.—M. McDonough, Swampscott, has been awarded contract for constructing sewer sections 1 and 2, at \$59,409.

Grand Rapids, Mich.—Thomas J. Peters, Chicago, Ill., has been awarded contract for the South End sewer, at \$97,800, by the Board of Public Works.—L. W. Anderson, City Engineer.

Cape Girardeau, Mo.—The Hill-Gaynor Construction Company, East St. Louis, has been awarded contract for constructing sewer system, at \$59,805.

Kirkville, Mo.—N. W. Dearborn, Stone City, Iowa, has been awarded contract for a sewer system.

St. Joseph, Mo.—Rackliffe & Gibson have been awarded contract for constructing new sewers and laying paving in Penn street, from 26th to 29th streets.

Morehead, N. D.—The Council has awarded James Kennedy the contract for putting in the new sewer system, at \$88,980, including bulkheads and manholes; efforts will be made to complete the work by January 1.

Elma, O.—The Board of Public Service has awarded the contract for grading and sewer West Elm street to Lomison & Sebitz.

Altoona, Pa.—The Board of Public Works has awarded the contract for 1,120 feet of 24-inch pipe sewer to T. H. Bowman, McKeesport, at \$1.68 per lineal foot.—Harvey Linton, City Engineer.

Edgeworth, Pa.—A. M. Bowman & Company, Pittsburg, have been awarded contract to construct sewers, at \$44,454.

Huntington, W. Va.—Henry L. Wright has been awarded contract for Sections 1 and 2 of the new sewer system, and Kyle & Ullom and Amos Trainor contracts for the other four sections.

WATER SUPPLY

St. Charles, Ill.—The Council has passed an ordinance authorizing issue of \$9,000 bonds for erecting a standpipe at the waterworks.

Atoka, I. T.—Bids will be received, July 20, for \$30,000 5 per cent. 20-year water bonds.—L. R. Tuebner, City Recorder.

Sulphur, I. T.—An election will be held to vote on the question of issuing \$55,000 waterworks bonds.

Bunkie, La.—The citizens will vote, August 10, on issue of \$18,000 bonds for a water system.—Mayor Watson.

Crowley, La.—An election will be held to pass on issue of \$100,000 bonds for a water plant, sewer system and new schoolhouse.

Hammond, La.—The citizens have voted \$40,000 bonds for waterworks and drainage purposes.

Biwabik, Minn.—Bids will be received, July 23, for \$10,000 5 per cent. 5-20-year water bonds.

McComb City, Miss.—The citizens will vote, August 4, on proposition to issue \$15,000 bonds to extend water system.

Clinton, Mo.—The City Clerk is receiving bids for \$100,000 water and light bonds.—G. Barrie, City Clerk.

Cincinnati, O.—Bids will be opened, August 7, for the purchase of \$1,250,000 3.65 per cent. additional water bonds.—Elmer G. Prior, Clerk, Board of Trustees, Commissioners of Water Works.

Cuyahoga Falls, O.—Council is considering issue of bonds to build waterworks reservoir and to purchase two air-lift water pumps.—C. D. Crumb, Clerk.

Findlay, O.—Council is considering issue of \$10,000 water extension and \$2,000 deficiency bonds.—J. S. Edie, Clerk.

Hamilton, O.—Council is considering a special issue of \$50,000 bonds to improve the city water and light plant.—Homer Guard, Clerk.

Lakewood, O.—The citizens voted against issue of bonds to install a waterworks plant and improve the municipal electric-lighting plant.

Lorain, O.—Bonds, \$12,000, are to be sold for filter tanks.

Mt. Vernon, O.—Bids will be opened, August 6, for bonds aggregating \$261,900, including waterworks extension, East Vine street sewer, and Sandusky street, East High street, West High street and East Vine street paving bonds.—S. Dorgan, City Auditor.

Painesville, O.—An election will be held, July 24, to vote on the question of issuing \$75,000 water filtration bonds.

Mineral Wells, Tex.—An election will be held to vote on the question of issuing waterworks bonds.

PROPOSED WORK

Birmingham, Ala.—The Birmingham Water Company has purchased nearly five square miles of land near Leeds and will convert a large portion into a supply basin; over 700 additional acres will be covered with water.

Hoehne, Col.—A waterworks system will be installed.

Rockvale, Col.—Plans are being prepared to install a water system, estimate, \$20,000.

Daytona, Fla.—Several artesian wells will be drilled.

Sandpoint, Ida.—The Council is preparing to improve the water and light plant.

Graysville, Ill.—The citizens voted \$5,000 bonds for improving the water plant and it has been appropriated by Council.

Delmar, Ia.—Plans are being prepared for a waterworks system.—Iowa Engineering Company, Clinton, Engineers.

Fort Scott, Kan.—Bids will be received, July 20, for new pumping plant for the waterworks.

London, Ky.—An expenditure of \$15,000 will be made for a waterworks system.—C. R. Baugh, Chairman, Board of Public Works.

Owensboro, Ky.—Plans and specifications have been prepared for extending and improving the water system; estimated cost, \$30,000.—Address City Engineer.

Kingsley, Mich.—The village has voted to issue bonds for a water supply.

Prior Lake, Minn.—The Council is arranging to expend \$2,500 to secure a water supply for fire protection.

Alma, Neb.—The citizens voted \$10,000 bonds for municipal waterworks; it is desired to have service in the fall.

Nunda, N. Y.—A special committee is considering the advisability of purchasing the waterworks plant for \$16,000, or constructing a new one.—F. C. Peck, Chairman.

Cleveland, O.—Council has passed and the Mayor has approved an ordinance authorizing the Board of Public Service to expend \$100,000 for cast-iron pipe and special castings for the Water Department.—C. W. Lapp, President of the Council; Peter Witt, City Clerk.

Dayton, O.—The new high pressure water system, it is estimated, will cost \$87,100.—Maintenance Engineer McDargh.

Painesville, O.—Council is considering plans for a filtration plant.—S. A. Haskill, Clerk.

Nashville, Tenn.—Specifications for the big \$150,000 engine to be installed at the pumping station are in the possession of the Board of Public Works.—Superintendent of Waterworks Ahearn.

Elsinore, Utah.—The citizens have voted bonds for constructing a water system.

Mont Joli, Que., Can.—A waterworks and sewer system will be installed at a cost of \$50,000.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids will be received, July 25, for cast-iron covers for water meter boxes.—Henry B. F. Macfarland, Henry L. West, John Biddle, Commissioners, Washington, D. C.

Chicago, Ill.—Bids were opened, July 14, for furnishing all labor, tools and materials and appliances necessary to construct pile protection for a two-mile crib, according to plans and specifications on file in the office of the Department of Public Works.—Wm. L. O'Connell, Commissioner.

Chicago, Ill.—Bids were invited, July 16, for furnishing and delivering approximately 8,400 tons of cast-iron pipe from 16 to 36 inches in diameter, according to plans and specifications.—Wm. L. O'Connell, Commissioner of Public Works.

Ottawa, Kan.—Bids are invited, July 20, for improving the municipal waterworks and electric-light and power plant in accordance with plans and specifications; electrical cen-

trifugal pumps and equipment, electric light and power engines, station pipe work and connections; dynamos, switchboards, apparatus, appliances and station electrical work, also exterior electrical work, connecting power station, waterworks motors and lighting system required.—Owen Ford, Consulting and Supervising Engineer, St. Louis, Mo.; J. H. Bell, City Clerk.

Owensboro, Ky.—Bids were received, July 16, for material for extending the water system, including 956 tons cast-iron water pipe, 4-14 inches, specials, etc.

Owosso, Mich.—Bids were opened, July 16, for constructing and laying complete of about 1,900 feet of four-inch water main, together with gates, plugs, etc.—Board of Public Works.

Biwabik, Minn.—Bids will be received, July 23, for constructing a waterworks system, according to plans and specifications.—Duluth Engineering Company, Duluth, Engineers; T. M. Butler, Village Recorder.

Glasgow, Mont.—Bids will be received, August 1, for constructing a complete water system.—J. J. Mullens, City Clerk.

Brooklyn, N. Y.—Bids will be opened, July 25, for furnishing, delivering, erecting and connecting four pumping engines complete, with all appurtenances and appliances, in the remodeled Ridgewood north side pumping station.—William B. Ellison, Commissioner, Department of Water Supply, Gas and Electricity.

Brooklyn, N. Y.—Bids will be received, July 25, for setting, replacing and hauling six-inch hydrant service pipe, hydrants and appurtenances on various streets; for furnishing and delivering stop-cocks; for furnishing and laying water mains and appurtenances in Belmont and Fountain avenues, in Crescent street and in the grounds of the new lots pumping station; for furnishing and driving deep wells, and for furnishing and installing superheaters and piping at various pumping stations.—William B. Ellison, Commissioner, Department of Water Supply, Gas and Electricity.

Dufur, Ore.—Bids were opened, July 13, for furnishing a quantity of 6 to 12-inch pipe.—Milton O'Brien, Secretary, Board of Water Commissioners.

Memphis, Tenn.—Bids were invited, July 12, for furnishing the Memphis Artesian Water Company 500 tons of cast-iron water pipe, 4 to 16-inch, inclusive, wrought steel pipe, couplings and thread protectors and necessary specials.—Lawrence Simpson, General Superintendent.

Milwaukee, Wis.—Bids will be received, August 1, by the Board of Public Works for furnishing and erecting at the North Point pumping station, Lake Michigan, one 20,000-gallon pumping engine, according to specifications.—Peter J. Koehler, Deputy Comptroller.

PUBLIC LIGHTING

Goodwater, Ala.—The City Clerk invites bids for the purchase of \$10,000 5 per cent. 20-year electric-light bonds.

Camp Point, Ill.—The Camp Point Electric Light and Power Company has been incorporated with a capital of \$10,000.—E. E. Holter, E. E. Whitney, Incorporators.

Springfield, Ill.—The Springfield Light, Heat & Power Company has absorbed the Springfield Electric Light & Power Company, and the capital stock increased to \$1,500,000; improvements are contemplated.

Amite, La.—The Council will probably approve a petition for a bond issue election for municipal improvements, including electric-light plant, waterworks and a brick school building.

Biwabik, Minn.—Bids will be received, July 23, for \$5,000 5 per cent. 5-20-year electric-light bonds.—F. M. Butler, Village Clerk.

McComb City, Miss.—The citizens will vote, August 4, on \$30,000 bond issue for a municipal light plant to replace a private corporation.

Ravenna, Neb.—An election will be held, July 31, to decide the question of issuing bonds for installing a gas plant.

PROPOSED WORK

Sandpoint, Ida.—The electric-light company will double the capacity of its plant.—J. F. Reynaud, Manager.

Ottawa, Kan.—The city has purchased the light and water plant and will expend \$8,000 in improvements.

Marquette, Mich.—A second municipal light and power plant will be installed on Dead river, at a cost of \$60,000. The expense will be defrayed from profits of the old plant, there being \$22,000 accumulated in the treasury.

Belle Plain, Minn.—Local capital will install an electric-light plant for the borough; a company will be incorporated with a capital stock of \$10,000.

La Belle, Mo.—The municipal electric-light plant burned here recently causing \$12,000 loss; it will be rebuilt.

Alma, Neb.—The city has voted \$7,000 bonds for an electric-light plant; efforts will be made to have municipal light late in the fall.

Leroy, N. Y.—The Leroy Electric Company will enlarge its plant by adding another dynamo and engine.

Dayton, O.—A site has been purchased in West Dayton on which an electric-light plant will be erected by the Citizens' Electric Company.—C. A. Snyder, Mayor.

El Reno, Okla.—The Court has under consideration the establishment of a municipal light plant.

McEwen, Tenn.—An electric-light plant will be erected and a 30 K. W. machine installed.—L. D. Baker.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids were opened, July 17, for one and three-year contracts for lighting the public streets, avenues, alleys and roads with incandescent, mantle gas and naphtha lamps.—Henry B. F. Macfarland, Henry L. West, John Biddle, Commissioners, District of Columbia.

Chicago, Ill.—Bids were opened, July 16, for three horizontal return tubular boilers, to be installed in the City Hall.—W. L. O'Connell.

Newark, N. J.—Bids will be opened, July 30, for electrical work, engines and electrical generators for the County Hospital for the insane, at Overbrook.—Runyon & Carey, Consulting Electrical Engineers.

Newark, N. J.—Bids will be opened, July 30, for constructing buildings and installing electrical and heating systems at the County Hospital for the insane, at Overbrook, in accordance with plans and specifications.—Hurd & Sutton, Architects.

New York, N. Y.—Bids will be received, July 23, for furnishing all labor and materials required for furnishing and delivering electrical generating sets; contract No. 1011.—J. A. Bense, Commissioner of Docks.

Fortress Monroe, Va.—Bids will be received, July 30, for installing electric-light fixtures.—Capt. R. H. C. Kelton, Quartermaster.

CONTRACTS AWARDED

Anderson, Ind.—Bert Wright has been awarded a contract to erect a large addition to the plant of the Remey Electric Manufacturing Company, which will be equipped with electrical machinery.

McGraw, N. Y.—The Cortland and Homer Electric Company has been awarded contract for lighting the city streets for one year.

Danville, Pa.—J. T. Buchanan & Company have been awarded contract to construct the new house for the Hospital for the Insane.

Spartanburg, S. C.—Oscar Shanks, of Pittsburgh, Pa., has been awarded contract for constructing a power-house and electric plant on Board river for the Spartanburg Electric Company.

Harriman, Tenn.—The Southern Electrical Company, of Nashville, has been awarded the contract for the entire equipment for arc lamps for the city by the Board of Water and Light Commissioners.

Chatham, N. B.—The Westinghouse Company has been awarded the contract to remodel the electric light plant, and the Canada Foundry Company will install the boilers.

FIRE EQUIPMENT AND SUPPLIES

Ensley, Ala.—The Fire Committee is investigating the purchase of a hook and ladder outfit.

Washington, D. C.—The Commissioners have accepted a donation of two lots on Minnesota avenue, between Hunt street and Sheriff road by John H. Walter, for the chemical engine and fire house recently authorized by Congress.—William T. Belt, Chief Engineer.

International Falls, Minn.—The Fire Department is preparing to purchase hose.

Litchfield, Minn.—The Fire Department is arranging to purchase hose and rubber coats.

Kansas City, Mo.—Three fire engines will be purchased.

Lemoyne, Pa.—A fire company is being organized; the purchase of apparatus is under consideration.—H. R. Rohrer, Secretary.

Nashville, Tenn.—An ordinance is before Council appropriating \$5,000 for purchasing an aerial fire truck.

Seattle, Wash.—The Mayor recommends the reorganization of the Department and the purchase of additional apparatus.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids will be received, July 28, for furnishing the Fire Department with 13,000 feet, more or less, of cotton, rubber lined, and rubber fire hose, 2½ inches, inside diameter.—Henry L. West, John Biddle, Commissioners; William T. Belt, Chief Engineer.

Brooklyn, N. Y.—Bids will be opened, July 18, for alterations and repairs to quarters of Engine Company No. 141.—John H. O'Brien, Fire Commissioner, New York.

MUNICIPAL BUILDINGS

Bokchito, I. T.—The Board of Education will issue \$6,500 school bonds.

Wetumka, I. T.—The issue of \$14,000 bonds for a school building has been approved by the Secretary of Interior, and an effort will be made by the Board to have the building completed for the fall term.

Grand Rapids, Mich.—The Council will issue \$15,000 bonds for the Palmer street school.

Kennedy, Minn.—Bonds, \$2,500, have been voted for a school.

Jackson, Miss.—An ordinance has been passed authorizing an issue of \$65,000 school bonds.

Falconer, N. Y.—Bids were received, July 16, for \$34,200, four per cent. 1-10-year, school bonds.—F. T. Merriman, Clerk.

Ashboro, N. C.—Bids will be received, July 20, for the purchase of \$10,000, 5 per cent., 20-year school bonds.—A. C. McAllister, Chairman.

Cleveland, O.—The Board of Education is considering offers of sites for new manual training school, for which \$350,000 has been appropriated.—Tom L. Johnson, Mayor.

Granger, O.—The citizens will vote on issue of school bonds.

Lakewood, O.—Bids will be received, July 26, for \$100,000, 4 per cent., bonds of the Lakewood Village School District.—J. O. Gordon, Clerk.

Crowley, Tex.—The Attorney General has approved an issue of \$10,000, 5 per cent., 40-year school bonds.

Grand Saline, Tex.—The Attorney General has approved an issue of \$16,500, 5 per cent., 40-year school bonds.

Manchester, Va.—The School Board has authorized the issue of \$15,000 bonds.

Granger, Wash.—The School Board has decided to issue bonds for a modern school-house.

Superior, Wis.—The Douglas County Board has voted to issue \$100,000 bonds to build an asylum.

CONTRACTS TO BE AWARDED

Bay City, Mich.—Bids were opened, July 11, for the general construction, heating and ventilating, plumbing and wiring of an eight-room school building in the Sixteenth Ward.—Clark and Munger, Architects.

Brooklyn, N. Y.—Bids will be opened by the Board of Health, July 24, for erecting a complete morgue building at the Kingston Avenue Hospital.—Thomas Darlington, M.D., President.

Brooklyn, N. Y.—Bids will be opened, July 25, for installing heating and ventilating apparatus in new Public School 6; for installing electric-light wiring, fixtures, etc., in Public Schools 17 and 22; for sanitary work and gas-fitting of new Public School 148, and for general construction, etc., of office and storage building, for the Board of Education in the Borough of Brooklyn.—C. B. J. Snyder, Superintendent of School Buildings.

New York, N. Y.—Bids will be opened, July 23, for constructing additions to and alterations in Public School 76, and installing electric equipment in new Public School 86, both in the Borough of Queens.—C. B. J. Snyder, Superintendent of School Buildings.

New York, N. Y.—Bids will be opened, July 23, for general construction, etc., of new Public School 12; for repairs, etc., at Public School 52, Borough of Manhattan.—C. B. J. Snyder, Superintendent of School Buildings.

Okeana, O.—Bids were received, July 12, for erecting an addition to the high school.—George Barkman Hamilton, Architect.

Philadelphia, Pa.—Bids will be received, July 23, for erecting buildings at Listons Range Rear Light Station, Delaware.—Major C. A. F. Flagler, Corps of Engineers, U. S. A., Engineer.

BRIDGES

Minneapolis, Minn.—The Council has passed an ordinance authorizing bond issue for building a bridge at Fort Snelling.

St. Charles, Mo.—The passage of the bill by Congress providing for a bridge across the Missouri river at St. Charles, will facilitate the completion of the electric road from Kansas City to St. Louis.

Cleveland, O.—An appropriation of \$25,000 has been made for an iron bridge to replace a wooden one.—Cuyahoga County Commissioners.

Sidney, O.—The County Commissioners have ordered the sale of \$33,000 bridge bonds, \$14,000 of which will be used in erecting a bridge across the Miami river in the southern part of the city, opposite the Children's Home.

Milwaukee, Ore.—A bridge will be built across Johnson creek by the Oregon Water Power Company.

Kutztown, Pa.—The Reading Railway Company will build a steel trestle, 120 feet long, for the Allentown and Reading Traction Company.

Chattanooga, Tenn.—A bill has been passed authorizing the Chattanooga Northern Railway to build a bridge over the Tennessee river.

STREET RAILWAYS

Athens, Ga.—The Nelsonville, Athens and Gloucester Traction Company has secured a franchise.—F. L. Carpenter, President.

Centerville, Ill.—The East Belt Railway Company has been incorporated, with a capital of \$500,000, to construct a line from Brooklyn to the east bank of the Mississippi river, near Chabokis Commons, St. Clair county.—Edward L. Thomas, Stookey township; John T. Taylor and others, Directors.

Newcastle, Ind.—The main plant of the Minneapolis, Newcastle and Toledo electric line will be erected on the Ellicott farm, southwest of the city; power will be furnished for the entire system of 147 miles.

Welsh, La.—An electric railroad is to be built from Lake Arthur, through Welsh and to the north or west state line, and probably into other States.—Lee Robinson, T. S. Langley, John H. Cooper, W. M. Clarke and C. E. Carr, promoters.

Langsbury, Mich.—The Village Council has granted Joseph Chick, of Detroit, a 30-year franchise to operate an electric railway through the streets.

POLICE

Berkeley, Cal.—An election will be held, July 21, to vote on the question of issuing \$311,000 bonds for a police alarm system.

Wilmington, Del.—Bids were received, July 1, for furnishing and making police uniforms and helmets.—George Black, Secretary, Board of Police Commissioners.

Chicago, Ill.—Bids were opened, July 3, for steam heating work in police station to be erected at Addison and Halsted streets.—Wm. L. O'Connell, Commissioner of Public Works.

Chicago, Ill.—Bids were opened, July 3, for doing all iron and steel work in the police station to be constructed at Addison and Halsted streets.—Wm. L. O'Connell, Commissioner of Public Works.

Brooklyn, N. Y.—Bids will be received, July 24, for making alterations and improvements to the Seventy-second Precinct station house, Foster and Coney Island avenues.—Theodore A. Bingham, Police Commissioner.

Newark, O.—Bids will be received, July 27, for \$8,000 bonds for erecting a police station.—Frank T. Muarath, Auditor.

MISCELLANEOUS

Le Roy, Ill.—The Le Roy and Southwestern Railway Company will let contracts for constructing 28 miles of line.

Rockford, Ill.—Bids will be opened, July 28, for \$60,000 city bonds.

Washington, D. C.—Bids will be received, July 24, at the Bureau of Supplies and Accounts, Navy Department, to furnish at the navy yard, Washington, D. C., a quantity of bar iron and steel, pig tin, slab zinc. Applicants should refer to Schedule 30.—H. T. B. Harris, Paymaster General, U. S. Navy.

New York, N. Y.—Bids will be opened at the Department of Public Charities, July 20, to replace fire escapes on three cottages at the City Farm Colony, Borough of Richmond, with new ones.—Robert W. Hebbard, Commissioner.

Cleveland, O.—Bids will be received, July 21, for \$5,000 4 per cent. county bonds.—Julius C. Dorn, Clerk.

IN THE MARKET

AT HOME

Ira L. Reeves, general manager Muskegon, I. T., Electric Traction Co., wants three 250-horsepower tubular boilers.

C. D. Vickers, Lockport, N. Y., wants two second-hand steam rollers.

C. G. Viele, manager Cement Block Co., Salisbury, N. C., wants a small concrete mixer, capacity 5 to 10 cubic yards per day.

T. D. Wooten, Gainesboro, Tenn., wants a bell for a school building, and slate for blackboards.

Farmers' Educational and Co-operative Union of Parker County, Weatherford, Tex., wants corrugated iron roofing.

Ford Roofing Co., Greensboro, N. C., wants fireproof windows.

Glover Machine Works, Marietta, Ga., wants one ton of asbestos cement.

Kell Bros., Welch, W. Va., wants flagstones, caps, sills and sawed stone.

Marjenhoff Company, 149 Church street, Charleston, S. C., wants electric motors.

Norris Bros., Holly Springs, N. C., want a traction engine, with tires suitable for sandy roads.

George S. Woodruff, Crozier Building, Philadelphia, Pa., wants a second-hand Lidgerwood 10 x 12-inch hoisting engine.

Fred A. Wright, 3 Court Place, Hagerstown, Md., wants machinery for the manufacture of cement, including crushers.

Subscriber to Municipal Journal and Engineer wants plans and information regarding sounding shells for park bandstands.

ABROAD

CAPE TOWN, SOUTH AFRICA.—Wholesale houses want American electrical goods. Address No. 183, Bureau of Manufactures, Washington, D. C.

ECHIGO, JAPAN.—The Hoko Petroleum Company wants modern oil well equipment. Address No. 178, Bureau of Manufactures, Washington, D. C.

HAVANA, CUBA.—S. S. Harvey, Prado 99, wants information regarding cost of erecting and operating crematories.

RIO JANEIRO, BRAZIL.—Intendencia de Ferro Central do Brazil, wants bids up to August 31 for superstructures for metallic bridges. Address No. 187, Bureau of Manufactures, Washington, D. C.

WANTS

INSPECTOR.—Of construction; understands brick, stone, reinforced-concrete; steel frame, bridge and dam construction; engage with engineer, architect or owner; first-class reference. KEY, EDWARD LYNCH, Mamaroneck, N. Y.

DRAUGHTSMAN, mechanical; familiar with shop practice and machine design; capable of measuring, making complete working drawings of special machinery; must be accurate, neat and rapid; state experience and salary. M. D. Municipal Journal.

DRAUGHTSMAN wanted by company building, elevating and conveying machinery; experience in this line desirable but not absolutely essential; state experience, salary expected and when able to report for duty. Address J. Municipal Journal.

DRAUGHTSMAN, young man, good penman, bright beginner, in store and office of manufacturing firm; give age and salary. L. F. Municipal Journal.

For Machines to Drill, Blast and Test Holes and Water Wells, write "LOOMIS CO., TIFFIN, O."

High Grades
of

PURE ASPHALT

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California Asphaltum Sales Agency

San Francisco Chicago New York London
JOHN BAKER, Jr., Manager

A COMPENDIUM

Current Topics of Municipal Interest—
Opinions on City Affairs

Municipal Aid to Emigrants.—"Consul Fleming reports that municipal aid is now being furnished to emigrants from Leith, Scotland, and the result is being watched with great interest. He says:

"The unemployed workmen act of 1905 authorizes the appointment of distress committees by the local authorities of cities and towns, and provides 'the central body may, if they think fit, in any case of an unemployed person referred to them by the distress committee, assist that person by aiding the emigration or removal to another area of that person and any of his dependents, or by providing or contributing toward the provision of temporary work.' Any expenses incurred which shall not be met by voluntary contributions are to be paid out of the rates or taxes.

"Leith is the first municipality in Scotland, if not in the United Kingdom, to adopt an emigration scheme. There are about 400 unemployed workmen in that city, and it is proposed by the distress committee to send to Canada as many as are physically fit for farm work and are willing to emigrate. A limited number of married men, with their wives and children, will be included in the list. To insure the physical fitness of emigrants for residence in the Dominion the applicants are medically examined. Thirty-one adults and six children passed the required examination and sailed from Glasgow recently. Each adult emigrant was presented with two new complete outfits of clothing, a steerage ticket, and \$5 or \$6 pocket money. It is calculated that the cost to the taxpayers will slightly exceed \$40 for each adult person sent abroad, not including the outfits of clothing, which, it is believed, will be largely provided by contributions of apparel and money. The first party of emigrants have been guaranteed work for twelve months on dairy farms in Ontario. Four are married men, over 30 and under 40 years of age. With one or two exceptions the single men are between the ages of 20 and 30."

Daily
Consular
Reports

Sham Home Rule.—"The Providence Police Commission Bill has become a law, and we are told that the city now has Home Rule.

"The Legislature might have named a dictator living in Providence who should appoint the Police Commission, and that would have been 'Home Rule.'

"It has not done quite that, but it has done the next thing to it—it has placed the appointment of the commission in the hands of ten men elected by a small minority of the voters of Providence, and for the most part controlled by a man behind the scenes.

"That is called 'Home Rule' by those who have fought real Home Rule for the last four years.

"But in this case the people and their representative are left out of account. Some day we are going to have government by the majority, and if, when it comes, the majority are not very tender of the minority which has so long thwarted them, it will not be surprising."

The State

IN OTHER COUNTRIES

A Selected Survey

ADELAIDE, South Australia.—The Tramway Company have agreed to sell to the Government all the street railways in the city for \$1,362,620. The city will convert the lines into an electric traction system.

ANTWERP, Belgium.—The Belgian Parliament has passed the Antwerp port extension bill appropriating \$40,000,000, which will insure the city the largest and most modern port in the world.

BENGAL, India, after unsatisfactory experiments with chemical treatment of sewage and sand filtration, has adopted the use of septic tanks. The addition of chloride of lime makes the effluent purer than the waters of the Hugli.

BERLIN, Germany.—The canal between this city and Stettin when rebuilt will have eight locks and will accommodate 600 ton boats. The cost of the work is estimated at \$71,000,000.

BRESLAU, Germany.—The artesian waterworks recently completed is a failure, at least for the present. After operating the pumps for a short time the water became so highly charged with lime, magnesia and iron that its use was abandoned.

DUBLIN, Ireland.—The United Tramways Company pays 6 per cent. per annum without the necessity of crowding the cars with strap hangers. The employees are even required to be courteous. As soon as a car has its quota of passengers no others are allowed to get on.

EDINBURGH, Scotland.—A committee of the Town Council has agreed to recommend that a site for a municipal art school be provided in the cattle market.

GORLITZ, Germany, engages in several branches of municipal trading; among them are the manufacture of brick and tiles, the operation of a coal mine and the manufacture of artificial stone.

HAMA, Syria.—Primitive hydraulic power plants are used for elevating water for domestic and irrigation purposes. Large waterwheels set on floats in the current of the river Kur supply the power.

JOHANNESBURG, South Africa.—Thirteen miles of new roads were constructed during 1904-5 and twenty-eight miles remodeled. The total length of roads and streets is 726 miles.

KHARTOUM, Soudan.—Good drinking water has been found. Water from artesian wells sunk hitherto has been bitter.

MANSOURAH, Egypt.—The American system of filtration has been established. Capacity of plant, 1,300,000 gallons per day. Three 15-foot Jewell filters have been installed.

PARIS, France, is having trouble with the atmosphere of its underground railway, and besides substituting gratings for doors at the entrances will install blowers at some points.

ROTTERDAM, Holland, is planning to build an asylum for children. Many public buildings are projected in various cities.

SINGAPORE, Straits Settlements.—Harbor improvements will be undertaken that will cost up to \$10,000,000 and require thirteen years to complete.

SYDNEY, New South Wales, has 500 motor cars. The government and private companies will establish a motor bus service.

WHO'S WHO IN
MUNICIPAL WORK

RAWSON, Charles W., Mayor of Albany, Ga., a grandson of Col. Nelson Tift, the founder of the city, now serving first term, 1906-1907; served city as Alderman one term, 1903-1904. Chairman Board of Electric Light and Water Commission, Chairman City and County Board of Education. Junior Warden St. Paul's Protestant Episcopal Church. Member of firm of Mock & Rawson, Albany, Georgia; President of Albany Machinery Company, Albany, Georgia. Director of Albany Business League. President of Retail Grocers' Association. Residence, Albany, Georgia.

SPEER, Robert W., first Mayor of Greater Denver, Colorado; was born in Mount Union, Pa., December 1, 1855. Coming to Colorado in 1877 a consumptive, Young Speer went out in the hills as a cow-puncher. At the end of two years he was greatly restored physically and returned to Denver. Obtained employment as a clerk in the carpet department of Daniels & Fisher's store. Subsequently he went into the real estate business, which has been his occupation ever since. He found time to fill many public positions. His long service in municipal positions on the Fire and Police Board and Board of Public Works equipped him for the office of Mayor. In 1880 he was elected City Clerk, being the only Democrat elected on the ticket. He served four years as Postmaster of Denver, six years as member of the Fire and Police Boards, and four years as President of the Board of Public Works. Has instituted many reforms and made many improvements and is a recognized authority on municipal affairs. Residence, Denver, Colorado.

THAYER, Charles F., lawyer, born in Thompson, Conn., November 6, 1852. Member of State Senate 1891. Elected Mayor of Norwich, Conn., June, 1900, for two-year term. Reelected June, 1902. Reelected June, 1904. Reelected June, 1906. Residence, Norwich, Conn.

WHIPPLE, George C., born in New Boston, N. H., March 2, 1866; graduated 1889 from Massachusetts Institute of Technology; from 1889 to 1897 was biologist to the Boston Water Board; from 1897 to 1903 was biologist and director of Mt. Prospect Laboratory of the Brooklyn Water Department, and later of the Department of Water Supply, Gas and Electricity of New York City; in 1903 was Engineer, Department of Chemistry and Biology of the Commission on Additional Water Supply of New York City; since 1904 has been a member of the firm of Hazen & Whipple, Consulting Engineers, St. Paul Building, New York City. Associate member American Society of Civil Engineers; member of American Chemical Society, Society of Chemical Industry, American Microscopical Society, Society of American Bacteriologists, American Public Health Association, American Water Works Association, New England Water Works Association; Fellow of Royal Microscopical Society and American Association for the Advancement of Science; author of "Microscopy of Drinking Water," 1906, John Wiley & Sons; author of many papers on matters connected with water purification and sewage disposal. Residence, 16 Kenmore Place, Brooklyn, N. Y.

LEGAL DIGEST—

A Summary and Notes of

RECENT DECISIONS

COUNCILMAN LOSES APPEAL

City of Akron vs. Amundson.—The court in the case of Jeremiah Amundson, former Councilman of Akron, refused to consider the case brought up on error. Mr. Amundson was assessed a fine of \$500 and deposed from his seat in City Council on the charge of soliciting a bribe.—Supreme Court, Columbus, O.

SURPLUS REVENUES

Laforest vs. Town of Thibodaux et al.—The mere interest of a plaintiff as a citizen and resident of a town and parish is insufficient in law to maintain an action to compel the authorities to invest the surplus revenues arising from the operation of a toll bridge and use the interest accruing therefrom for the maintenance and operation of the structure as a free bridge, it not being even alleged that plaintiff had ever used the bridge or expected to use it or had been or would be injured by the collection of tolls.—Supreme Court, New Orleans, La.

MUNICIPAL AUTHORITY LIMITED

Charles Flowers et al. vs. City of Detroit.—An injunction suit to restrain the city of Detroit, Mich., from spending the \$50,000 appropriated for a brick plant. It was urged that if the power to pave streets be given by the charter, such provision necessarily carries with it by implication the power to prepare, furnish, or even manufacture the paving materials. But a paving brick is a well-known and widely sold commercial commodity, and if the argument has force it might as well be asserted the city had by implication the power to manufacture everything that goes into paving. Held that such an enterprise is not one of the powers that is essential to the declared objects and purposes of the municipal corporation.—District Court, Detroit, Mich.

SHADE TREES—OWNERS' RIGHTS

Brown vs. Asheville Electric Co.—The right to recover punitive damages for the cutting of trees upon a sidewalk for the accommodation of electric-light wires, in entire disregard of the rights of the abutting owner, and against his protest, is sustained in *Brown vs. Asheville Electric Co.*—Supreme Court, Asheville, N. C.

SOIL UNDER STREETS

City of Leadville vs. Bohn Mining Company et al.—The court holds that the soil under the streets of a city does not belong to the municipality. In a suit in which the City of Leadville sought to enforce a claim to the mineral underlying the streets and alleys the court has decided adversely to the city. The defendants, the Bohn Mining Company, the Coronado Mining Company and others, had been mining under the streets and the city objected. The decision is contrary to the rulings of the Supreme Court of Illinois and other eastern states.—Supreme Court, Leadville, Col.

TAXATION OF ASSOCIATION

Pratt Institute, New York, vs. City of New York.—The opinion holding that the real estate of a chartered educational institution not used "for the purpose of carrying out thereupon" the objects of the school, although its revenue was used for that purpose, is now, by virtue of the General Tax law of 1896 of New York, subject to taxation for local purposes, notwithstanding its charter granted by special act in 1887 expressly exempted it from local taxation; that the general Tax Law operated as a repeal of or a substitution for the provisions of the special act in this respect; that the provisions of the Federal Constitution against impairing the obligations of a contract are not violated by such a repeal, inasmuch as that right was reserved to the Legislature.—Opinion by Judge Vann, New York Court of Appeals.

PROTECTION OF RESERVOIR

Carey vs. Kansas City, Mo.—A fence four and one-half feet high around a water supply reservoir in a public park, which is constructed so that children have to remove their shoes to climb it, is held to be sufficient to absolve the municipality from liability for the death, by drowning in the reservoir, of a child 11 years old, who has been warned by public watchmen not to go inside the inclosure and driven out of it.—District Court, Kansas City.

WARRANTS' DEBT LIMIT

Harry Hay, Jr., vs. Helena.—Payment of a warrant was resisted because the legal limit of debt had been passed. Debt limit was decided not to have been passed until 1893, hence all outstanding warrants issued prior to that date must be paid.—Supreme Court, Helena, Mont.

A DIRECTORY OF MUNICIPAL AND ALLIED SOCIETIES

July 19-20.

Connecticut State Firemen's Association.—Convention, West Haven.—John S. Jones, Secretary, Westport.

July 19-20.

American Society of Heating and Ventilating Engineers.—Semi-annual meeting, Chicago.—W. M. Mackay, Secretary, P. O. Box 1818, New York City.

July 21-24.

New York State Firemen's Association.—Parade and tournament, Jamestown, N. Y.

July 24-25.

Western New York Firemen's Association.—Convention, Brockport, N. Y.—C. F. Foley, Secretary, Lockport, N. Y.

July 24-26.

Central New York Volunteer Firemen's Association.—Convention and tournament, Ithaca, N. Y.—James Murphy, Secretary.

July 31.

Convention to organize a Firemen's Association, Brandon, Manitoba, Can.—Chief E. G. Wiswell, Secretary, Brandon.

August 1-2.

C. O. S. Y. S. Firemen's Association.—Convention, Canadaigua, N. Y.—F. G. Hulse, Secretary.

August 1-3.

Northwestern Pennsylvania Firemen's Association.—Convention, Southport, Pa.—Fred Seger, Secretary, Emporium, Pa.

August 7-9.

Illinois State Firemen's Association.—Tournament, Urbana.—W. E. Price, Secretary, Champaign, Ill.

August 7-9.

Provincial Volunteer Firemen's Association.—Convention, Hamilton, Ont.—W. J. Armstrong, Secretary, Toronto Junction.

August 8-9.

Northern Central Firemen's Association.—Convention, Pittsford, N. Y.—W. O. Green, Secretary, Fairport.

August 8-9.

Concrete Block Machine Manufacturers' Association.—Annual meeting, Detroit, Mich.—S. L. Wiltse, Secretary, Jackson, Mich.

August 14-16.

National Firemen's Association.—Convention, Roanoke, Va.—O. J. McCarthy, Secretary, P. O. Box 600, St. Louis, Mo.

August 14-16.

Nebraska State Firemen's Association.—Convention and tournament, Fremont.—E. A. Miller, Secretary, Kearney.

August 14-17.

Western Pennsylvania Association.—Convention, McDonald, Pa.—W. H. Sharal, Secretary, Braddock.

August 15-16.

Five County Volunteer Association.—Convention, Canton, Pa.—E. J. Cleveland, Secretary.

August 15-17.

International Association of Municipal Electricians.—Annual meeting, New Haven, Conn.—Frank P. Foster, Secretary, Corning, N. Y.

August 16.

New England Veteran Fireman's League.—Hand Engine Muster, Providence, R. I.—W. H. Hathaway, Secretary, Hyde Park, Mass.

August 21-24.

New York State Firemen's Association.—Convention, parade and tournament, Jamestown, N. Y.—Thomas Honohan, Secretary, Frankfort, N. Y.

September 26-28.

League of American Municipalities.—Tenth annual convention, Chicago.—John MacVicar, Secretary, Des Moines, Iowa.

September.

Municipal Civil Service Commissions of all cities in New York State.—Under auspices of State Civil Service Commission, Albany, N. Y.

September.

New England Water Works Association.—Annual convention, White Mountains.—Willard Kent, Secretary, 715 Tremont Temple, Boston, Mass.

October 9.

American Society of Municipal Improvements.—Annual convention, Birmingham, Ala.—George W. Tillson, Secretary, Municipal Building, Brooklyn, N. Y.

October 9-12.

International Association of Fire Engineers.—Annual convention, Dallas, Tex.—Jas. McFall, Secretary, Roanoke, Va.

October 15-19.

American Street and Interurban Railway Association.—Annual convention, Columbus, Ohio.—E. V. Swenson, Secretary, 30 Wall street, New York City.

November 14.

International Congress on Tuberculosis.—New York City. (The principal purpose of the congress will be that of urging preventive legislation against tuberculosis, the adoption of municipal and government sanitariums and discussion of all the questions involved.)

INCORPORATIONS

When our readers desire to correspond with any of the following companies, they should address the company itself or a director, incorporator or other official or partner by name to the address (if given) under such name. This will prevent letters being returned and marked "unknown."

Lawrence E. Blake Realty Company. To manufacture bricks, stone, marble, lumber, etc.; lands. Capital, \$50,000. Incorporators: Lawrence E. Blake, 256 Wakeman Place, Brooklyn; Walter O. Beaton, 52 Broadway, New York; Henry B. Conger, Montclair, N. J.

Mountain Quarry Company. Mines, quarrying, mineral lands, construct buildings, etc. Capital, \$15,000. Incorporators: Edward C. Westervelt, Oscar B. Van Sant, Herman J. Assendorf, 11 Broadway, New York.

Argentine & Eau Claire Railroad Company. To build three miles of railroad in Butler county, Pa. Capital, \$30,000. Incorporators: Harry A. Kinney, Norman Sebring, John Forsyth, Edward Lloyd, all of Windber, Pa.

Wilkesbarre Electric Light Company. Capital, \$250,000. Incorporators: J. B. Ford, president, and others, Wilkesbarre, Pa.

El Paso Portland Cement Company, El Paso, Tex. Capital, \$500,000. Incorporators: A. Gourchesne, R. Silberberg, Jas. L. Man, Felix Martinez, H. B. Stevens, Z. N. White and W. F. Robinson.

Eureka State Company, San Francisco, Cal. To enter into a general mining business and establish and sell townsites. Capital, \$1,500,000. Incorporators: W. C. Webb, Edwin Schwab, W. S. Dowling, R. M. Moore and A. F. Morrison.

Napa Brick Co., Napa, Cal. Capital, \$100,000. Incorporators: W. S. West, president, F. M. Knapp, secretary, and others.

Santa Cruz Sand Company, San Francisco, Cal. Capital, \$10,000. Incorporators: Randolph Whiting, Walter R. Hoag, C. E. Arnold, Charles R. Holton, Edward E. Simpson.

Clayton, Smyrna and Bayshore Traction Company, Philadelphia, Pa. To construct and manage a general line of trolleys, etc. Capital, \$6,000.

Wilmington Reduction Company, Philadelphia, Pa. To enter into contracts for the reduction of garbage, etc. Capital, \$100,000.

The Great Lakes Dredge and Dock Company, of New Jersey. Has been authorized to transact business in Indiana. T. C. Lutz, of Indiana Harbor, is the Indiana agent.

Muncie and Union City Traction Company, Indianapolis, Ind. To build an inter-urban railroad. Capital, \$500,000. Incorporators: J. A. Van Osdoll, W. C. Sampson, H. A. Nicoll, A. C. Murray, C. H. Allen.

Mt. Washington Development Company, Baltimore, Md. To develop 50 acres of land for residential purposes. Incorporators: W. H. Webb, Maryland Telephone Building; T. J. Shyrook and W. H. Martin.

Mound City Reduction Company, St. Louis, Mo. Capital, \$10,000. Incorporators: Henry Sayers, E. J. Cassidy and M. Kroeger.

E. M. Reed Electric Company, Kansas City, Mo. Capital, \$20,000. Incorporators: Charles E. Miller, H. C. Borge, and others.

Acme Gas Fixture Company, southeast corner Oxford and Belmont avenues, Bridgeton, N. J. To manufacture gas fixtures, electric light fixtures, art metal work, copper, brass, tin, nickel, etc. Capital, \$100,000. Incorporators: Wallace C. Rice, 347 Atlantic street; J. Lenhart Rice, 162 Broad street; Jesse P. Reeves, 532 Atlantic street, all of Bridgeton, N. J.

Alaga Asbestos Company, 1125 Washington street, Hoboken, N. J. To acquire property for the purpose of taking therefrom asbestos. Capital, \$250,000. Incorporators: Harry Kahn, Montgomery, Ala.; Edward S. Brozelton, Birmingham, Ala.; William D. Sporboy, 10 Wall street, New York.

Joseph T. Burrows Company, 213 West Front street, Red Bank, N. J. Lumber, brick, cement, hardware, building materials, etc. Capital, \$30,000. Incorporators: Joseph T. Ada and Harry C. Burrows, Red Bank, N. J.

The Consolidated Supply Company, 147 East State street, Trenton, N. J. Manufacture milling, plumbing and sanitary fixtures, belting, rubber goods, etc. Capital, \$50,000. Incorporators: James D. Brady, John M. Wright, Charles H. English, Trenton, N. J.

Contractors' Tool Company, 395 Market street, Camden, N. J. To manufacture contractors' tools, supplies, machinery, etc. Capital, \$50,000. Incorporators: C. P. Calver, J. Walton Calver, Jr., John W. Calver, Philadelphia; Wilfred B. Wolcott, as above.

Utilities, Trade Notes and News

AUTO-TRUCKS AND OMNIBUSES.—The Knox Automobile Company, Springfield, Ohio, issue Bulletin No. 2 in which they describe and illustrate their line of commercial cars. These cars are all operated by air cooled motors. The illustrations have the names of many well-known firms in many cities. The record of the police patrol at Springfield, where the machine made 2,189 runs at an average cost of 6 cents per mile, is interesting.

CITY ADVERTISING.—The Weber Club, the business men's association of Ogden, Utah, is desirous to assist in establishing manufacturing enterprises in that city.

CONDUITS FOR PIPES.—The H. W. Johns-Manville Co., 100 William street, New York City, publish booklet describing their portland sectional conduit for pipes conveying steam, water or gas. The loss of heat from steam pipes is reduced to a minimum by the use of this conduit and the cost of installation is said to be less than that of brick or even wood.

CONTRACT DESIGNERS.—Hoggson Brothers, 7 East Forty-fourth street, New York City, issue a booklet and pamphlets describing their business firms' profession and illustrations of some of their work. Their proposition is to furnish plans, specifications, architectural services as well as all labor and materials for the required building. The property owner need only approve the plans and in due time his building, finished and furnished from its foundation to the Georevan rug in the hall, will be turned over to him.

GARBAGE CARTS.—The Tiffin Wagon Co., Tiffin, Ohio, in catalogue Number 3, besides describing agricultural implements and a general purpose wagon, have a cut of a garbage cart that looks like a good thing for short routes.

GAS ENGINES.—The De La Vergne Machine Co., foot of East 38th street, New York City, have issued a handsomely printed and illustrated folder describing the Koerting four cycle gas engine and suction producer. These engines have been used extensively in Europe, some of them in municipal lighting plants.

HARDWARE CATALOGUE.—The S. Obermayer Co., Cincinnati, Ohio, Chicago, Ill., and Pittsburg, Pa., issue a 370 page catalogue of everything needed in a foundry as well as many things used by municipal and other contractors. They are importers and refiners of East India plumbago and silver lead, shippers of cupola blocks, fire brick, fire clay and the like.

NEW PARTNERSHIP.—Olmstead Bros., Brookline, Mass., announce that they have associated with themselves in the practice of Landscape Architecture, Percival Gallagher, and James Fred-eric Dawson, both former students of the Burrey Institute.

PAINTING WITHOUT BRUSHES.—The Humphreys Mfg. Co., Mansfield, Ohio, publish a booklet describing their compressed air painting machine and spray pump. The machine consists of two cylinders, one for the regular liquid the other an air chamber charged by a hand pump mounted on the same platform with the cylinders.

PRIZE DESIGNS.—The Garden City Company, Garden City, Long Island, N. Y., offer prizes amounting in all to \$3,000 for designs of suburban houses suitable for erection on their property. The plans are to be submitted to H. E. Lynke, 160 Fifth avenue, New York City, by August 1. The houses may be single or double, costing \$7,000 and \$12,000 respectively, to be built on lots measuring 77 by 112 feet. Exterior trim requiring paint is to be avoided. The requirements for single houses apply to each half of the double house.

PUMPING BY COMPRESSED AIR.—The Pneumatic Engineering Co., 128 Broadway, New York City, issue a catalogue describing their three methods of pumping water by air pressure. By the system in which the air lift pump is used, air is conveyed into the lower end of the water pipe through a foot piece of special



Four-way adjustable street signs with re-inforced steel tube posts and sheet metal perforated signs

These signs are indestructible by the elements, do not rust or corrode, and can be read from a long distance and at any angle you approach them. Adjustable to the intersections, will carry as many signs as are needed for additional intersections. Write for catalogue. We contract with municipalities for signs and house numbering.

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Radford, Va.

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LYNCHBURG, VA.

Eastern Office
220 BROADWAY, NEW YORK

Back Numbers Wanted

We are short of copies of February 21st and April 25th, 1906, of this paper. If you have them and do not want to keep them you will oblige us greatly by mailing them to the New York office, Flatiron Building, Madison Square.

construction. After the standing water column has been thrown off the air rises through the water and reduces its weight, the result being that the water is expelled as fast as the well supplies it. The company also employ the system of handling water with the displacement pump.

WATER METERS.—The Hersey Manufacturing Company, South Boston, Mass., issue a pamphlet giving names and numbers of repair parts for Hersey Water Meters. The cuts are large, clear, complete and plainly marked.

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Southern White Cedar Poles

ANY LENGTH OR QUANTITY
For Town or City Electric Light Plants

Southern Exchange Co. 97 Warren St., N. Y.

PATENT CLAIMS

822,019.—Disinfecting Apparatus. William H. Rose, Baltimore, Md. Serial No. 258,852.

In a disinfecting apparatus, the combination with a receptacle for disinfecting fluid and a float therein, of a flexible tube depending from the float and connecting the float with a discharge opening, and a wick carried by the float and arranged to discharge into said tube.

822,025.—Seal for Stop-Cocks. Henry C. Sisco, Anderson, Ind., assignor of one-half to H. L. Millsbaugh, Anderson, Ind. Serial No. 272,060.

A seal for stop-cocks comprising a stirrup provided with angularly-disposed side walls adapted to contact with the cock and having an upwardly-extending angular cap secured to its top portion to embrace the operating head of said cock.

823,542. Fire Alarm. George H. Oatway and Charles E. May, London, England. Serial No. 253,555.

The combination of compensator or base constructed to expand approximately equally with the other parts of the apparatus when the rise of temperature is slow and which is exposed to changes in the atmosphere, a lever pivoted to the base, a quickly-expandable rod having one end fixed to the base and the other end pivotally connected with one arm of the lever and a flexible wire having one end connected to the base and the other end to the other arm of the lever.

824,192.—Mold for Concrete-Wall Constructions. Bernhard A. Mueller, East St. Louis, Ill. Serial No. 293,883.

A mold for concrete-wall construction comprising a plurality of interchangeable horizontal sections, each of said sections comprising a plate provided with flanges at its upper and lower edges, and a plurality of vertical braces secured to said plate at regular intervals and each having a projection at one end and a corresponding seat at the other end, whereby the sections may be interlocked with each other.

824,193.—Core for Concrete-Wall Constructions. Bernhard A. Mueller, East St. Louis, Ill. Serial No. 301,764.

A core for a hollow-wall construction having side and end walls hinged together at a point interiorly offset from their planes, substantially as described.

824,329.—Interlocking Brick. Franklin P. Allen and James M. Schofield, Stockton, Cal.; said Allen assignor to said Schofield, Stockton, Cal. Serial No. 199,167.

The combination with a brick, having intersecting depressions extending from edge to edge of the brick on both sides thereof, of a key shaped to correspond to and fitting the depressions on the side of the brick, and projecting above the side thereof to engage the corresponding depressions on an adjacent brick.

824,363.—Fireproof Floor Construction. Anders Jordahl, Carnegie, Pa. Serial No. 288,470.

A fireproof floor construction comprising flanged girders, composition blocks recessed upon their upper surfaces and adapted to receive one of the flanges of a girder, a reinforcing-rod incorporated in said block and bent to form a loop which extends through the bottom of the recess in the block, a key-plate passing through said loop and engaging one of the flanges of the girder, a cement filling to said recess over said locking-plate and about the girder, composition blocks resting upon said block which is secured to the girder, and cement floor-slabs having shoulders formed in the under surface thereof to engage the outer faces of said cement blocks, as set forth.

824,411.—Guard for Door-Keys of Fire-Alarm Boxes and for other things. Frederick W. Cole, Newton, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y., a Corporation of New York. Serial No. 300,064.

A guard consisting of a self-opening door having a glass plate, and means, engaging said plate, for holding said door closed, substantially as described.

824,469.—Apparatus for Purifying Smoke. William Cline, Lancaster, Pa., assignor of one-third to John F. Brimmer and one-third to William Fuhrman, Lancaster, Pa. Serial No. 243,659.

In an apparatus of the character described, a flue leading from a furnace, a chimney or stack and a flue-chamber connecting the flue directly with the stack, said flue-chamber having inlet and outlet openings, respectively from the flue and to the stack, of an area in cross-section coequal with the cross-sectional area of said flue, in combination with a sprayer located within the flue-chamber beyond the inlet from the flue and arranged to vaporize a liquid in a direction corresponding with the plane in which the smoke enters from the flue and traverses said flue-chamber.

Proposals

Street Lighting

Sealed proposals will be received by the Town Council of Pottsville, Pa., until 7.30 p.m., on Tuesday, Sept. 18, 1906, for lighting the streets of the borough and borough buildings with either electricity or gas for a period of five years from February 15, 1907.

"Bids for electric lighting to be for 137 or more arc lights and 50 or more incandescent lights for streets, with extra bids for buildings.

"Successful bidder to furnish approved bond in the sum of ten thousand dollars, conditioned for faithful performance of contract. "A certified check for \$2,500 to accompany each bid, which shall be forfeited on failure to execute said bond and contract. Candle power and character of lamp to be designated in bid. Council reserves the right to reject any or all bids or parts of bids."

By order of Town Council.

Attest:—G. A. BERNER, Town Clerk.
Pottsville, June 19, 1906.

Power Plant

Idaho Falls, Idaho.

Sealed proposals will be received at the office of the City Clerk of Idaho Falls, Idaho, until Monday, July 30, 1906, at 8 o'clock P.M., for the construction of a power plant on Snake River for the City of Idaho Falls, requiring the building of about 2,000 cubic yards of concrete masonry and the placing of 50 tons of steel reinforcement and structural steel, together with other accessory work.

Plans, specifications and proposal blanks may be obtained from the City Clerk of Idaho Falls, or may be inspected at the office of A. J. Wiley, at Boise, Idaho.

E. P. COLTMAN, Mayor.
D. G. PLATT, City Clerk.

Street Paving

SEALED PROPOSALS will be received by the Town Council of Pottsville, Pa., until 7.30 o'clock p. m. on Tuesday, July 31, for STREET PAVING with vitrified brick, amounting to about 7,000 or 8,000 square yards.

Paving to be done according to plans and specifications to be furnished by the Borough Engineer, Wm. S. Fugh.

Brand or name of brick to be specified and sample submitted with bid. Bids must be submitted on blanks to be furnished by the Borough Engineer.

Successful bidder to give bond with approved security for faithful performance of contract.

Council reserves the right to reject any or all bids or parts of bids.

By order of Town Council.
Attest:—G. A. BERNER, Town Clerk.
Pottsville, Pa., July 3, 1906.

Inspector of Lamps

Municipal Civil Service Commission, No. 299 Broadway.

Public notice is hereby given that an open competitive examination will be held Wednesday, July 18, 1906, at 10 A. M., for the following position:

INSPECTOR OF LAMPS AND GAS.

The receipt of applications will close on Tuesday, July 3, at 4 P. M.

The subjects and weights of the examination are as follows:

Technical	5
Experience	2
Report	2
Mathematics	1

The percentage required is 75 on the technical paper and 70 on all.

Inspectors will be required to inspect and pass upon lighting of streets and public buildings as to general illumination and economical efficiency. They must be familiar with reading of gas and electric meters and also the units of measurement of gas and electricity. They must have elemental knowledge of gas and electricity and of the apparatus for utilizing the same for lighting, heating and power purposes. They should also have a general knowledge of location of streets in the various boroughs.

There are fifteen vacancies in the Department of Water Supply, Gas and Electricity. The salary is \$1,200 per annum.

The minimum age is 21.

FRANK A. SPENCER,
Secretary.

Notice to Contractors and Ditchers

Notice is hereby given that the Board of Supervisors of Dickinson County, Iowa, will meet at the Auditor's office of Dickinson County, Iowa, at 1 o'clock p. m., on the 23d day of July, A. D. 1906, to let the contract to the lowest and best bidders to excavate an open ditch for the Richland Township, Drainage District No. 2, in Dickinson County, Iowa.

The work to be let by the cubic yard in sections or as a whole at the discretion of the Board of Supervisors.

The amount of work to be let is approximately as follows:

Section 1—7,568 ft.; average depth, 5.90 ft., 16,372 cu. yds.

Section 2—2,067 ft.; average depth, 4 ft., 2,450 cu. yds.

Section 3—8,860 ft.; average depth, 4.80 ft., 13,860 cu. yds.

Section 4—6,145 ft.; average depth, 6 ft., 13,790 cu. yds.

Section 5—5,905 ft.; average depth, 6.10 ft., 14,810 cu. yds.

Section 6—5,920 ft.; average depth, 5 ft., 10,944 cu. yds.

Section 7—5,677 ft.; average depth, 5.30 ft., 12,963 cu. yds.

Section 8—428 ft.; average depth, 3.60 ft., 548 cu. yds.

Plans, profiles and specifications are on file at the Auditor's office in Dickinson County, Iowa.

All work must be completed on or before Jan. 1, 1907.

A certified check of amount equal to ten per cent. of the amount of the bid must accompany each bid, to be returned to the bidder as provided by the drainage laws of Iowa.

A bond to the amount of twenty-five per cent. of the estimated cost of the work to be done with sufficient sureties must be given by the successful bidders on entering into contract as required by the drainage laws of the State of Iowa.

The board of supervisors reserve the right to reject any or all bids.

Spirit Lake, Iowa, June 7, 1906.

By order of the Board of Supervisors of Dickinson County, Iowa.

C. C. HAMILTON,
County Auditor.

Street Paving

Tamaqua, Pa., June 29, 1906.

Sealed proposals for paving a portion of Broad street from Market to Swatara street with Vitrified Shale Paving Bricks or Blocks on a Cement Concrete Foundation, or with Warren's Bitulithic Pavement on a Bituminous Base, will be received by the Town Council of the Borough of Tamaqua, Pa., until 8 o'clock P.M., Wednesday, July 25th, 1906. The work consists of about 13,000 square yards of paving.

Plans and specifications may be seen and blank forms of proposals had at the office of the Borough Secretary. Bidders must be skilled and experienced in this class of work. A certified or cashier's check for \$1,000 must accompany all proposals.

The Town Council reserves the right to reject any or all bids. W F. LEOPOLD,
E. L. Boyd, Secretary.

Borough Engineer.

Notice to Contractors

The Creek, Drainage and Park Commission of the City of Ithaca, N. Y., invites proposals for the excavation (approximately) of 35,000 cubic yards of earth and 1,200 cubic yards of rock, also for the construction (approximately) of 2,600 cubic yards concrete wall and 3,500 square yards concrete slope wall. Bids will be opened in July. For specifications address Edward Hayes, Engineer.

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SPECIAL NOTICE

In the respective following issues of the Municipal Journal and Engineer considerable space will be devoted specially to the subjects as indicated:—

—1906—

August 1st - - - SANITATION

—Smoke Prevention, Street Sprinkling and Cleaning.

September 5th - - - THE CITY BEAUTIFUL

—Parks, Monuments, etc.

October 3d - - - FIRE AND POLICE

November 7th - - - LIGHTING

—Gas, Electricity, Etc.

December 5th - - - BRIDGES

BOOKS YOU SHOULD HAVE

On Street and Road Construction, Sewer Systems, and Water Supply

CITY ROADS AND PAVEMENTS SUITED TO CITIES OF MODERATE SIZE. Second edition, revised and enlarged.—By W. P. Judson. 200 pp. \$2.00.

STREET PAVEMENTS AND PAVING MATERIALS.—A Manual of City Pavements: the Methods and Materials of their Construction. For the Use of Students, Engineers, and City Officials. By Geo. W. Tillson, C. E. 8vo, xii + 532 pages, 60 figures. Cloth; \$4.00.

A TREATISE ON ROADS AND PAVEMENTS.—By Ira Osborn Baker, C. E. 8vo, viii + 655 pages, 171 figures, 68 tables. Cloth; \$5.00.

THE MODERN ASPHALT PAVEMENT.—By Clifford Richardson. 8vo, 580 pages. Cloth; \$3.00.

HIGHWAY CONSTRUCTION.—A Treatise on Highway Construction, Designed as a Text-book and Work of Reference for All Who May be Engaged in the Location, Construction, or Maintenance of Roads, Streets, and Pavements. By A. T. Byrne, C. E. Fourth Revised and Enlarged Edition. 8vo, xi + 895 pages, 306 illustrations. Cloth; \$5.00.

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SEWER DESIGN.—By H. N. Ogden, C. E., Asso. M. Am. Soc. C. E. 12mo, xi + 234 pages, 54 figures, 5 plates. Cloth; \$2.00.

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